

10/037068
1/31
37
FIGS

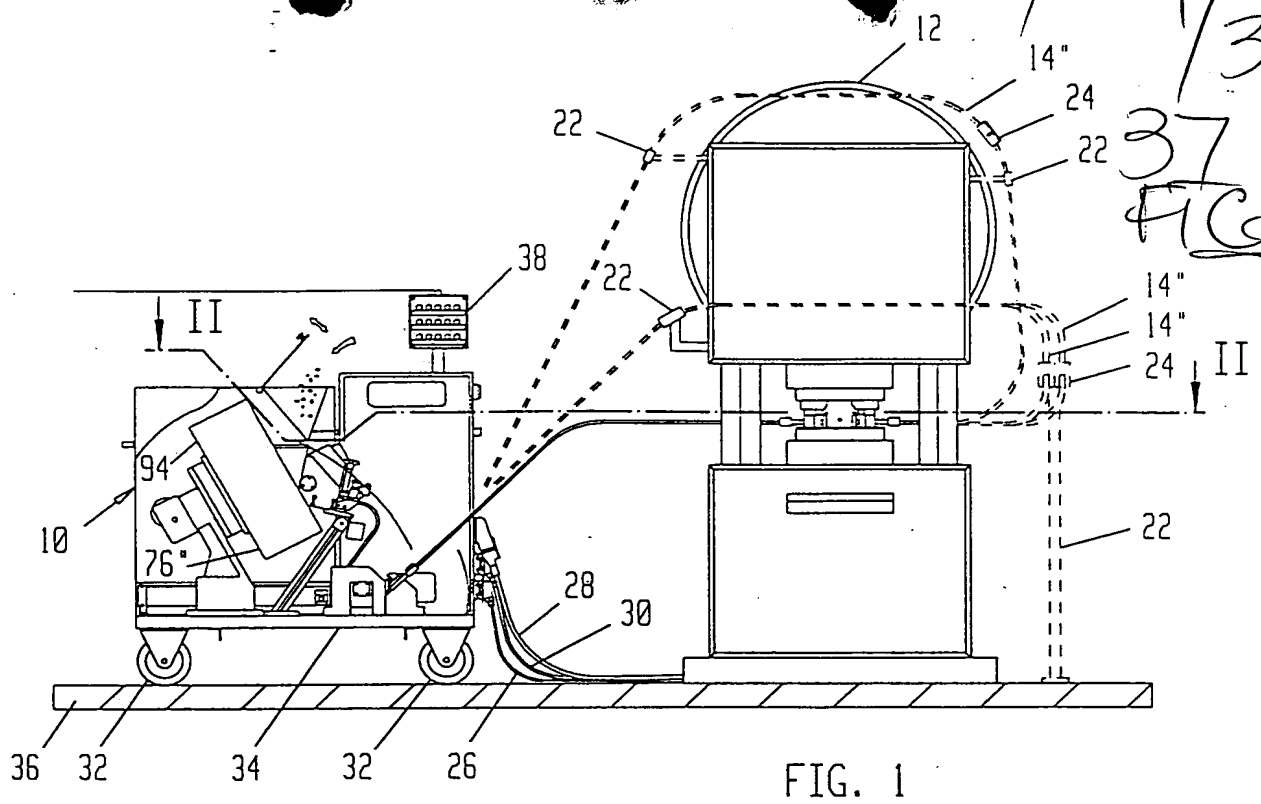


FIG. 1

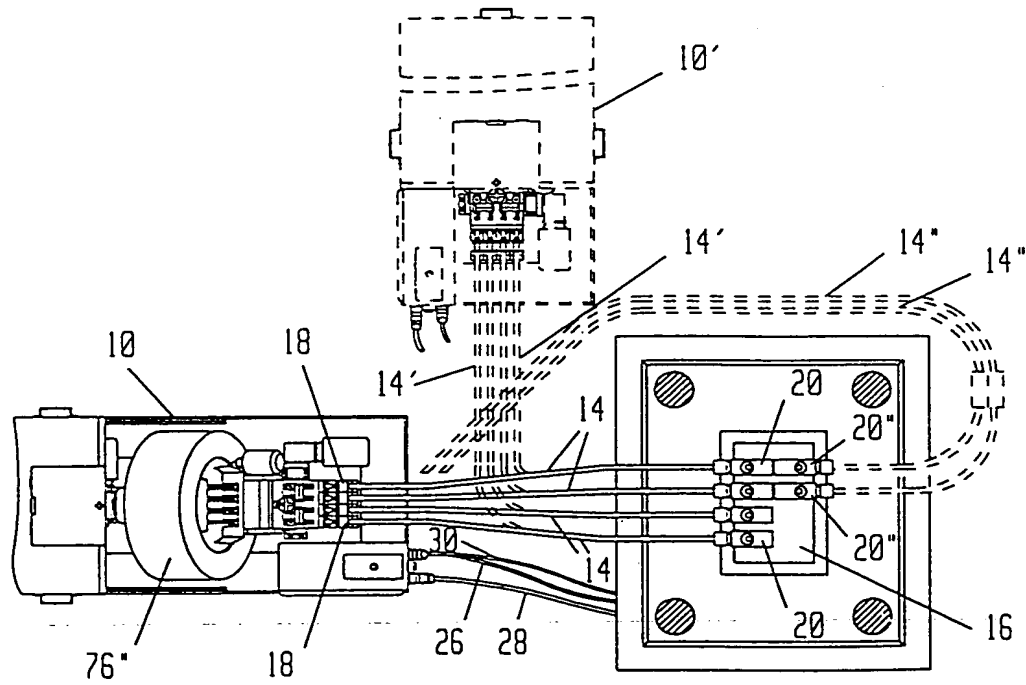


FIG. 2

FIG. 3 is a perspective view of the machine of FIG. 1, showing the machine in a position for cutting a workpiece. The machine is shown in a position for cutting a workpiece, and the workpiece is shown in a position for being cut by the machine.

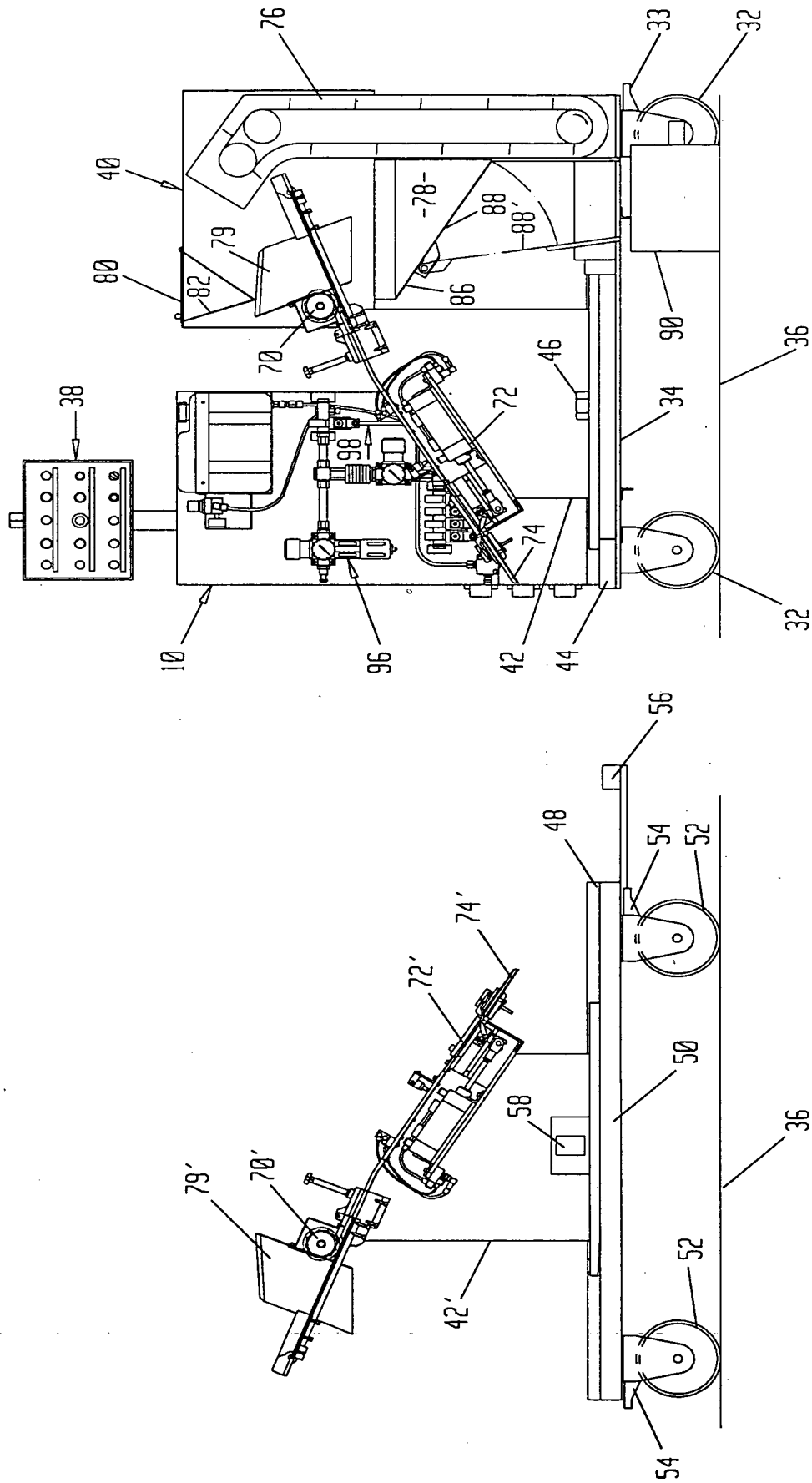


FIG. 3

FIG. 4 is a perspective view of the device 10, showing the front panel 38, the control panel 40, and the main body 10. The device 10 is shown in a perspective view, with the front panel 38 and the control panel 40 visible. The main body 10 is shown in a perspective view, with the front panel 38 and the control panel 40 visible. The device 10 is shown in a perspective view, with the front panel 38 and the control panel 40 visible. The main body 10 is shown in a perspective view, with the front panel 38 and the control panel 40 visible.

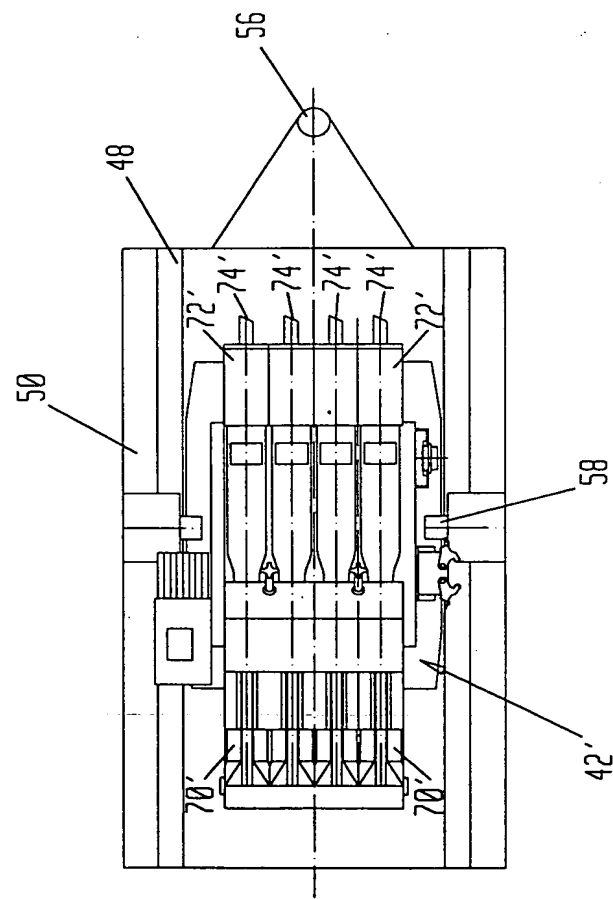
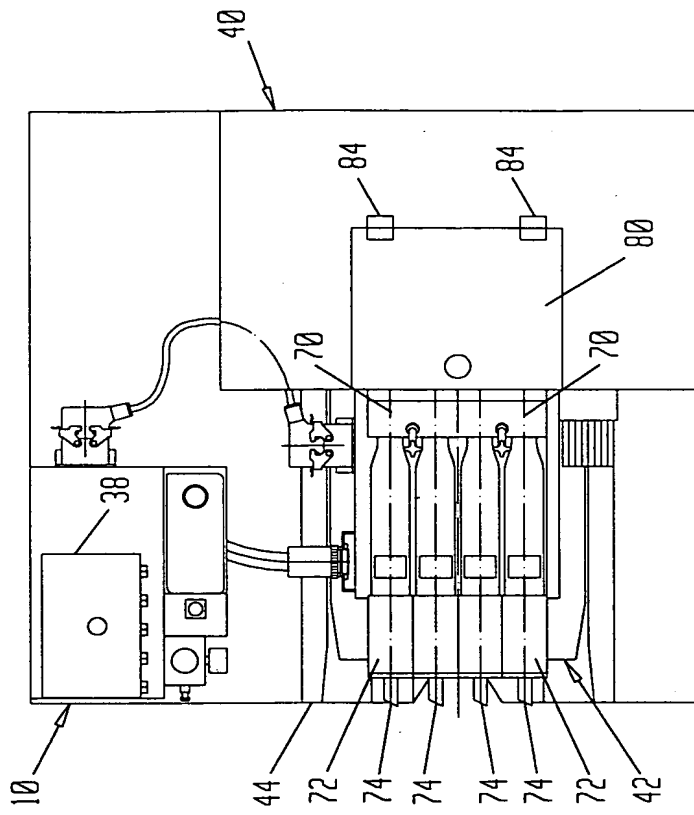


FIG. 4

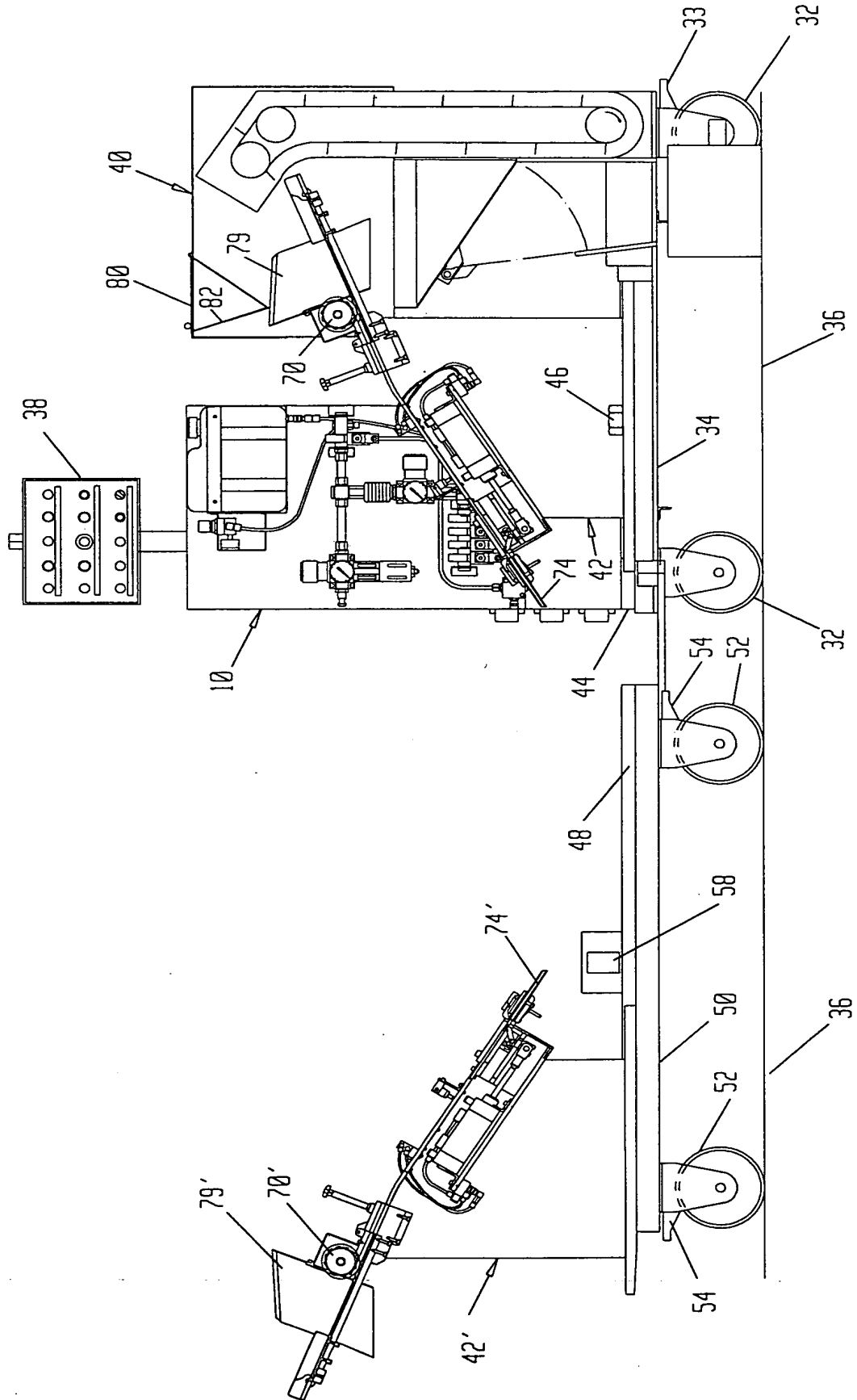
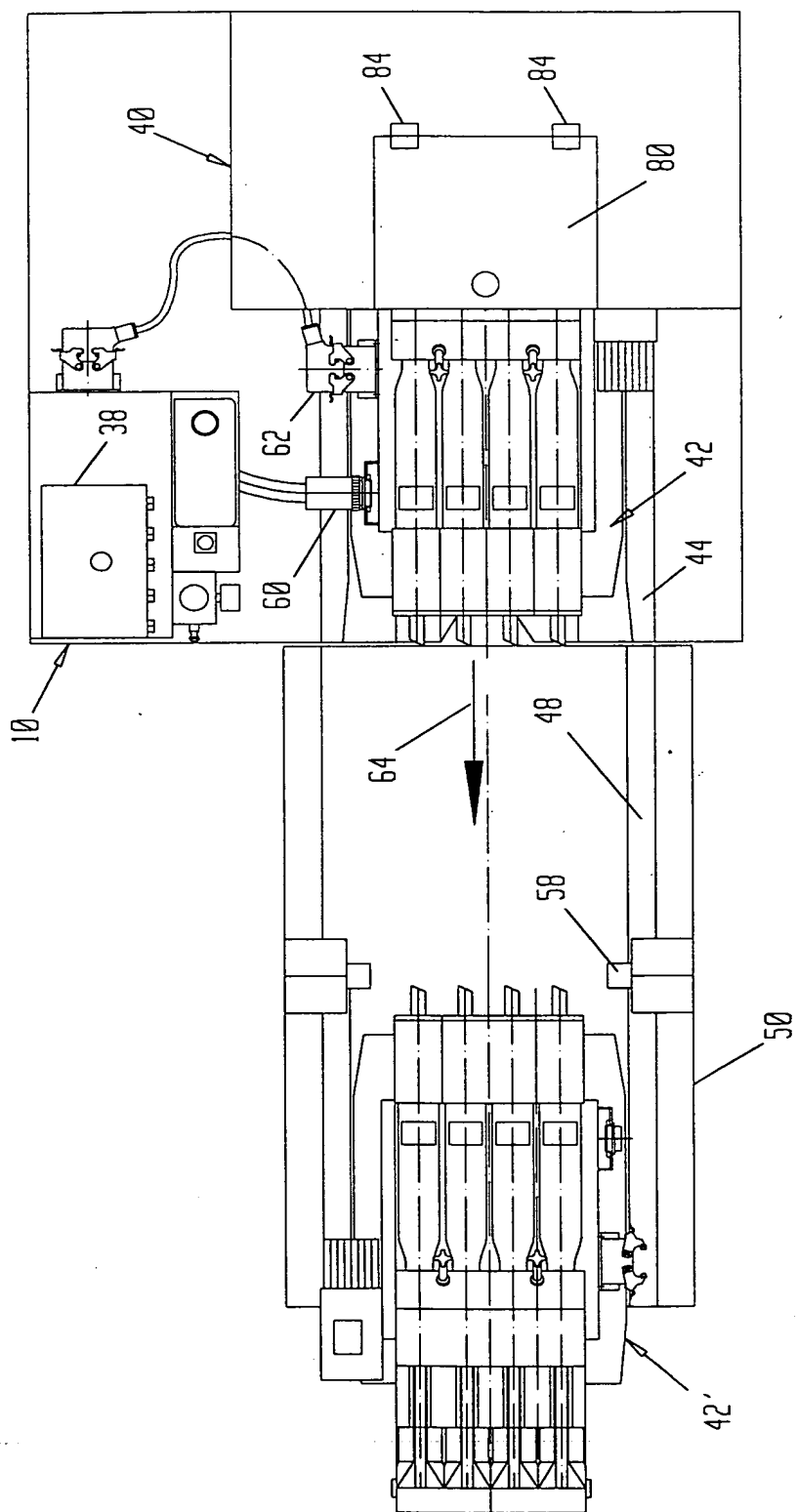


FIG. 5



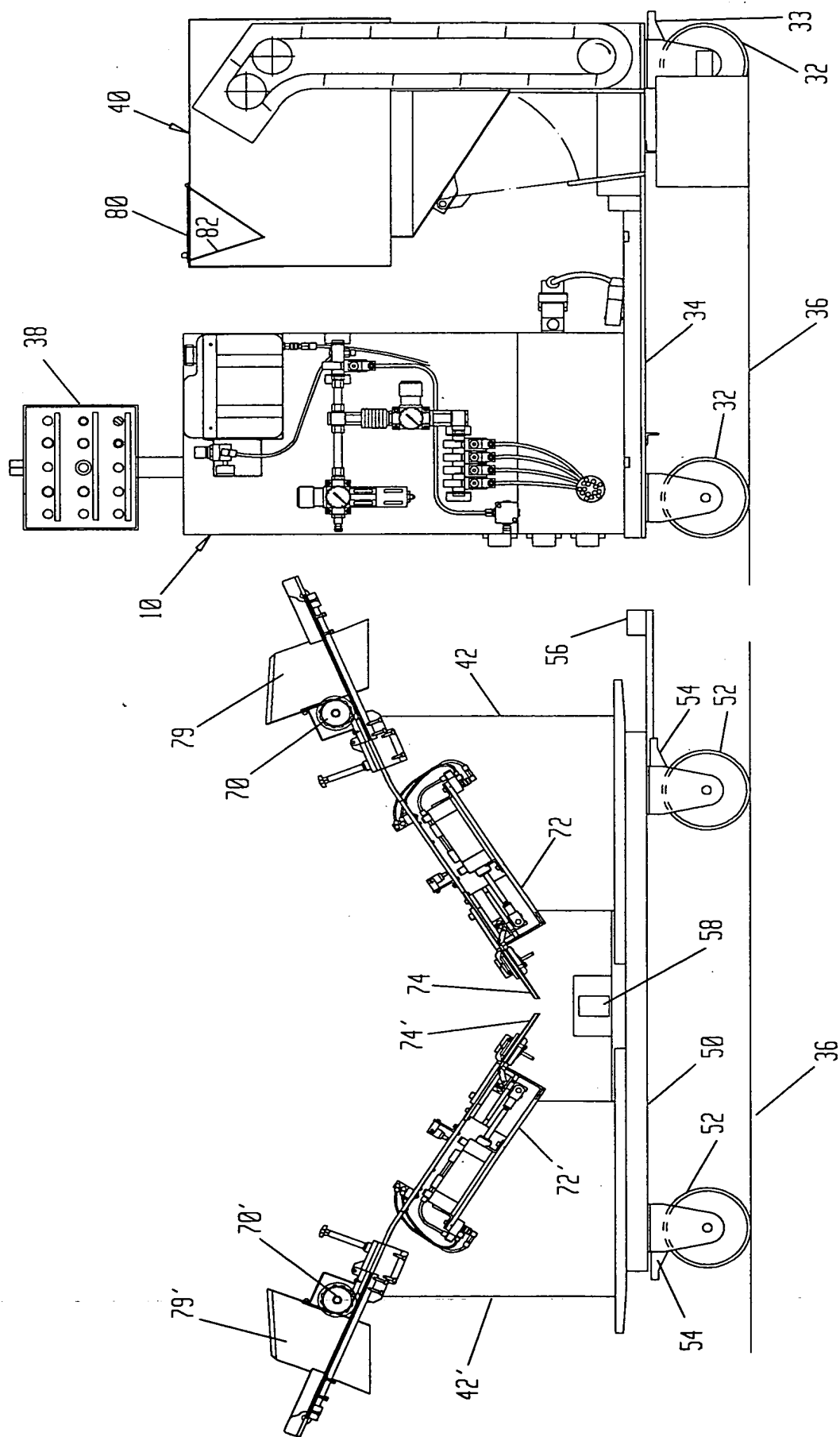


FIG. 7

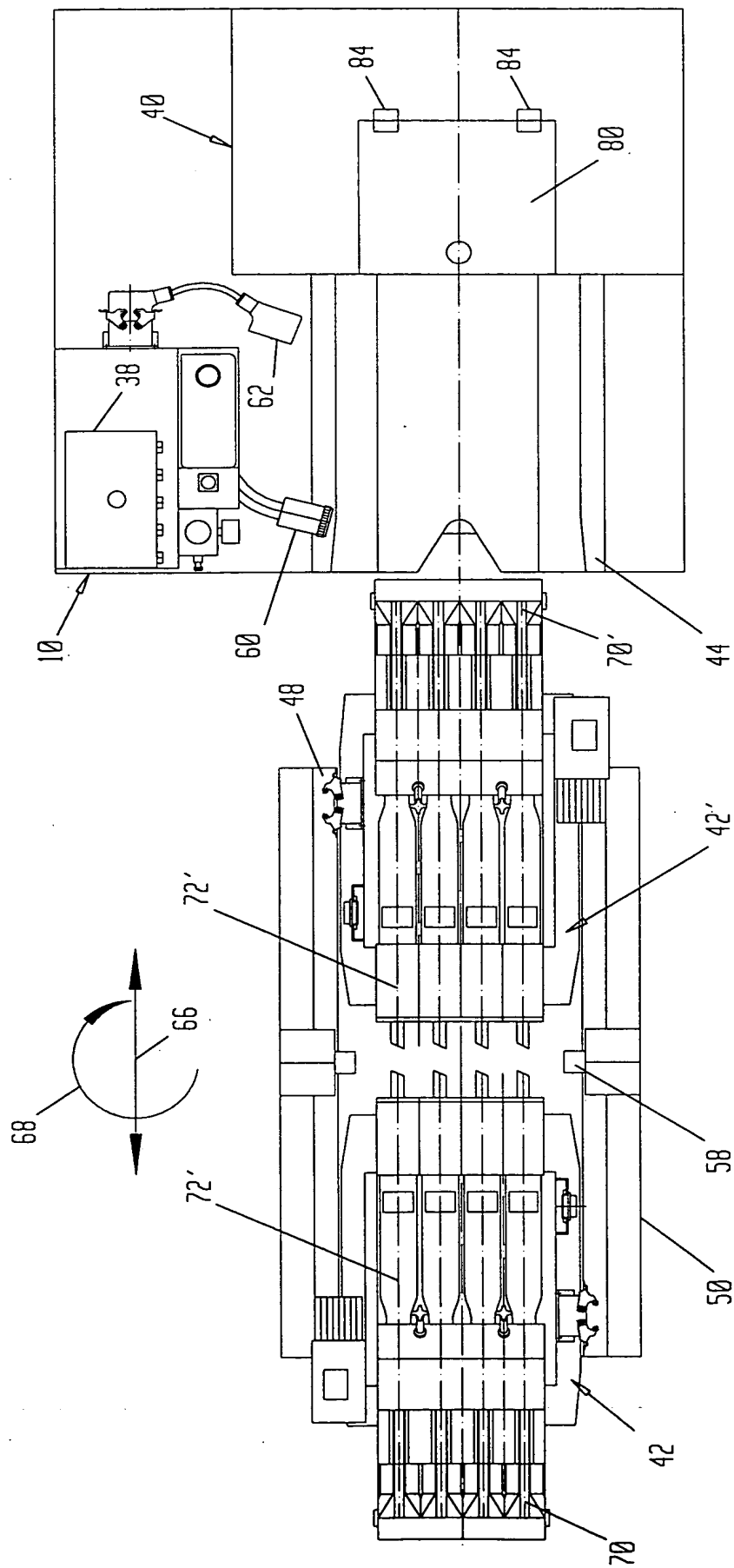


FIG. 8

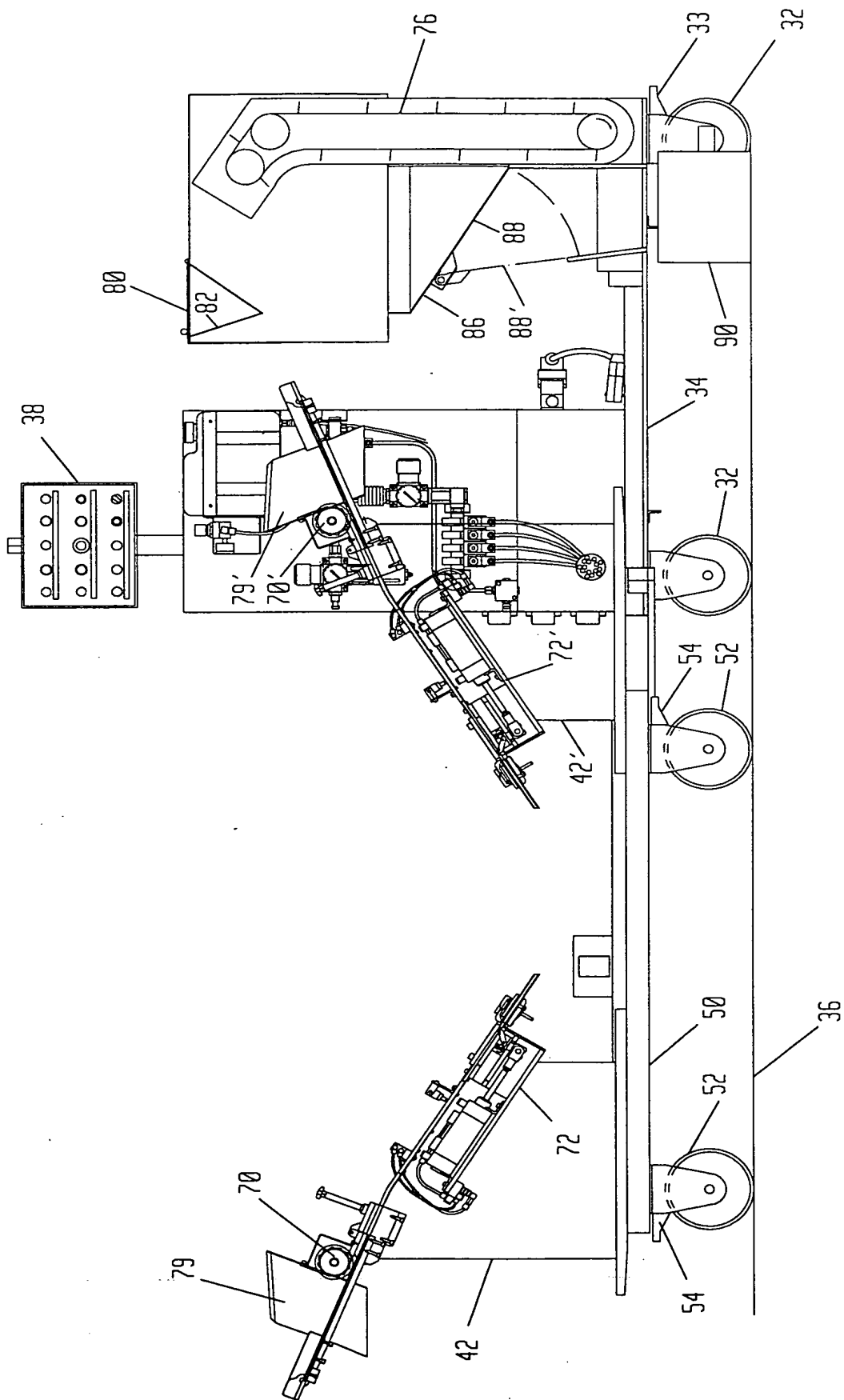


FIG. 9

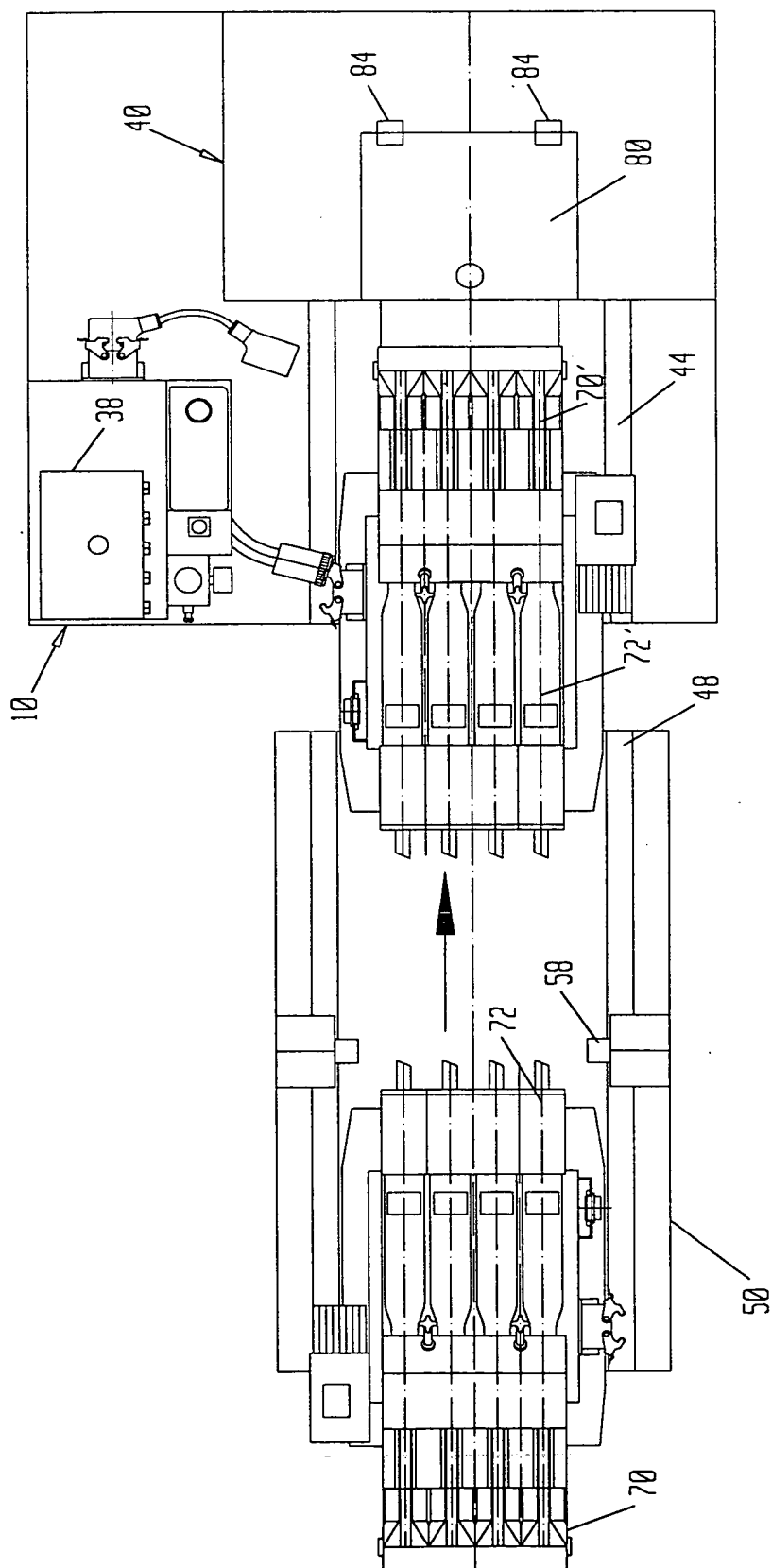


FIG. 10

The diagram illustrates a mechanical system with the following labeled components:

- 38**: Control panel with multiple buttons or switches.
- 10**: Motor or pump unit.
- 96**: Pump or valve component.
- 98**: Valve or control component.
- 70, 72, 76, 80, 82, 86, 88, 88'**: Various mechanical parts, including a large frame (40) and a complex mechanism.
- 42**: Lever or handle component.
- 46**: Handle or control component.
- 45**: Control unit or valve component.
- 36**: Base or frame component.
- 32, 52**: Wheels or rollers.
- 50**: Support or frame component.
- 54**: Small component, possibly a pin or screw.

FIG. 11

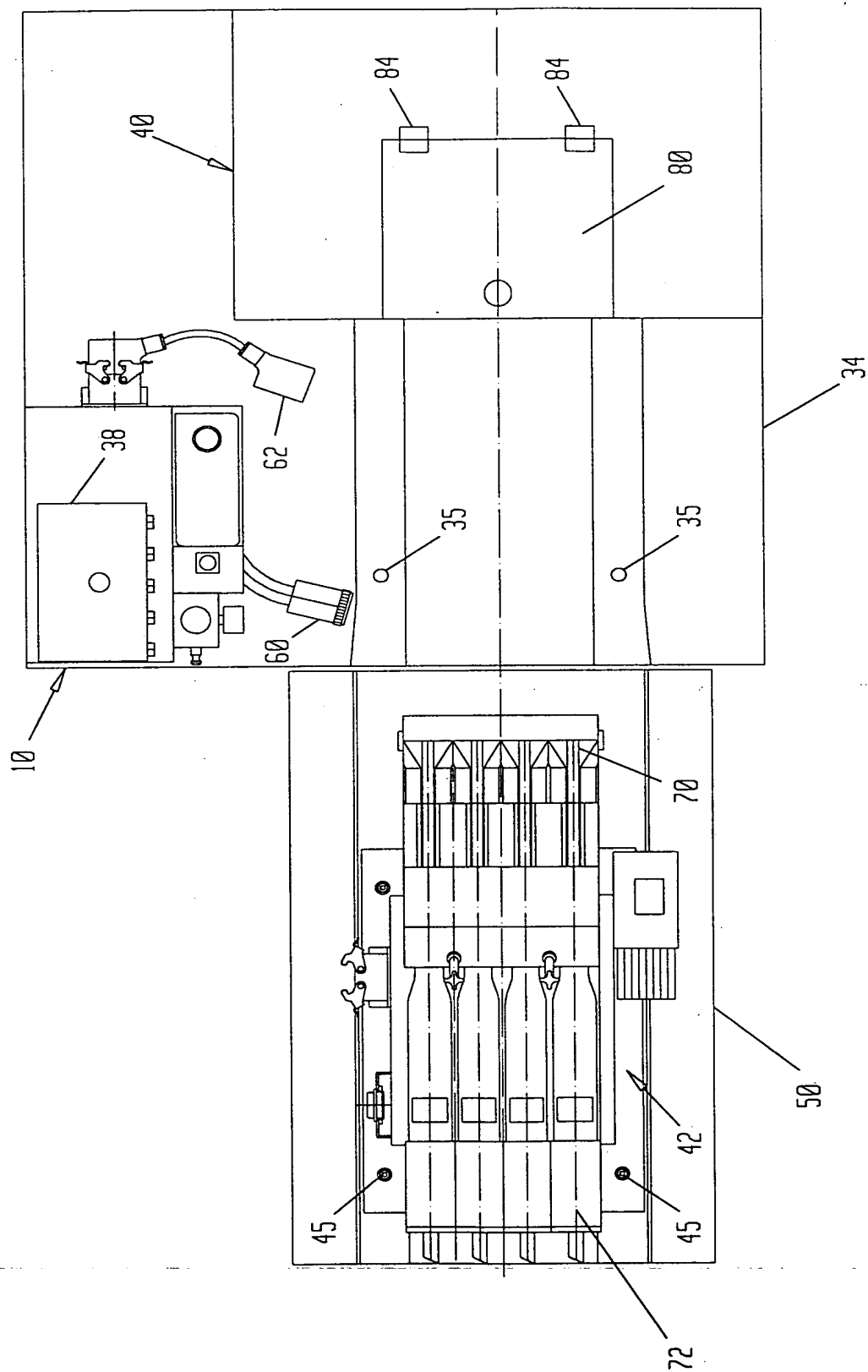


FIG. 12

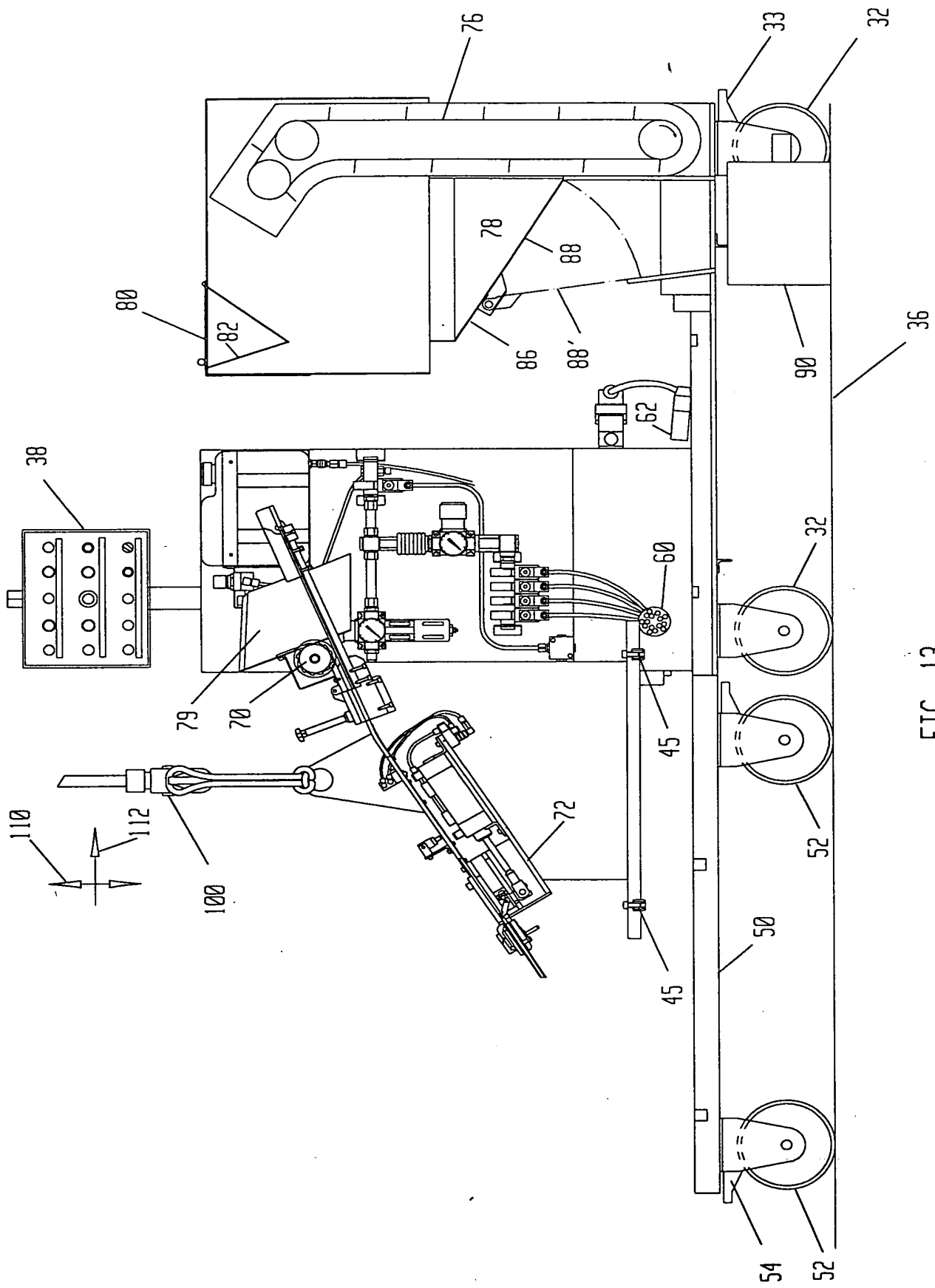


FIG. 13

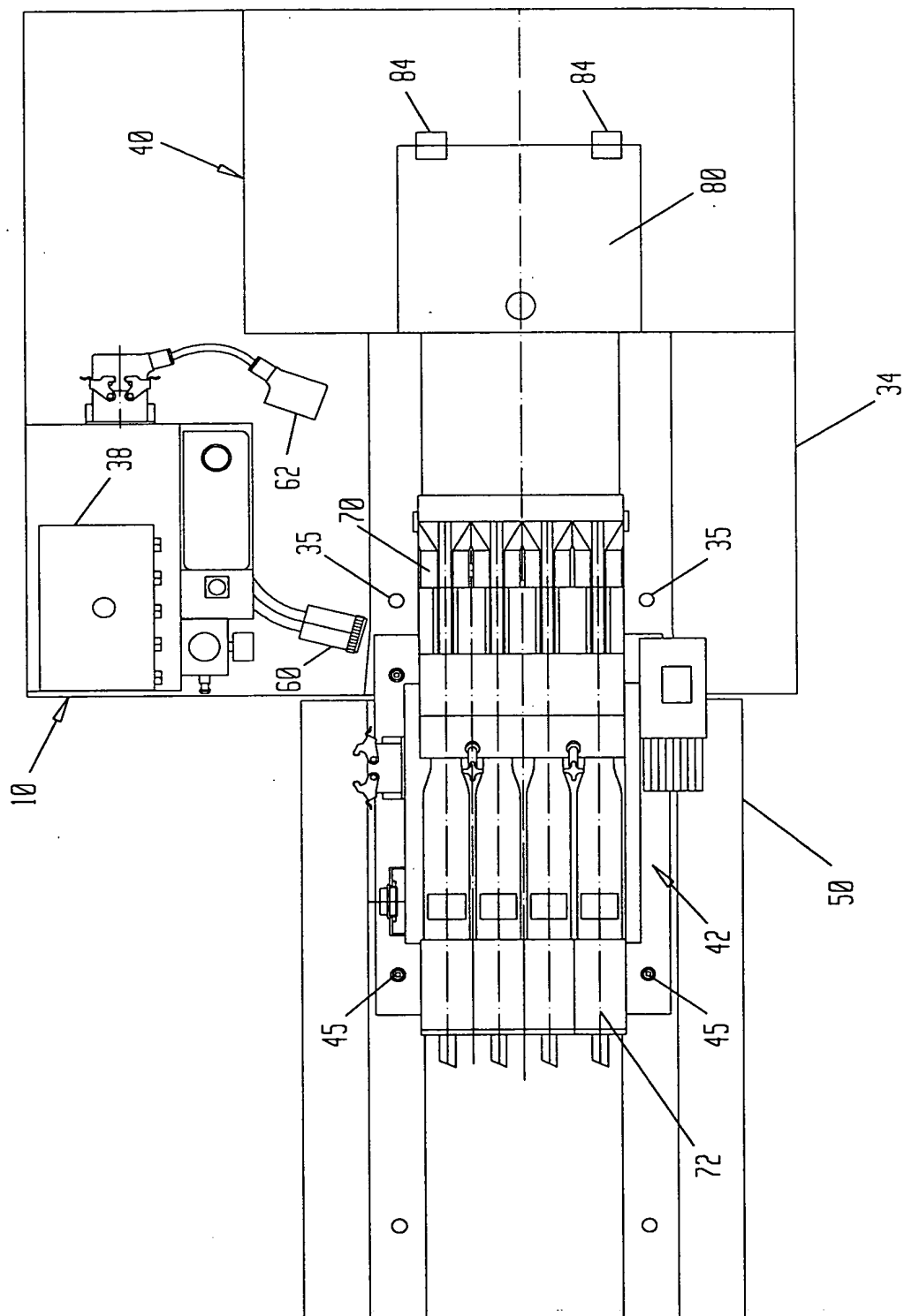


FIG. 14

FIG. 15 is a schematic diagram of the apparatus of FIG. 14, showing the electrical control system. The control system includes a power source 38, a motor 70, and a control unit 72. The motor 70 is connected to the control unit 72, which in turn controls the operation of the apparatus. The control unit 72 is shown with various electrical components, including a switch 74, a relay 76, and a timer 78. The control unit 72 is connected to the power source 38 via a control line 80. The control unit 72 is also connected to the motor 70 via a motor line 82. The control unit 72 is shown with a display 84 and a control panel 86. The control unit 72 is shown with a power switch 88 and a reset button 88'.

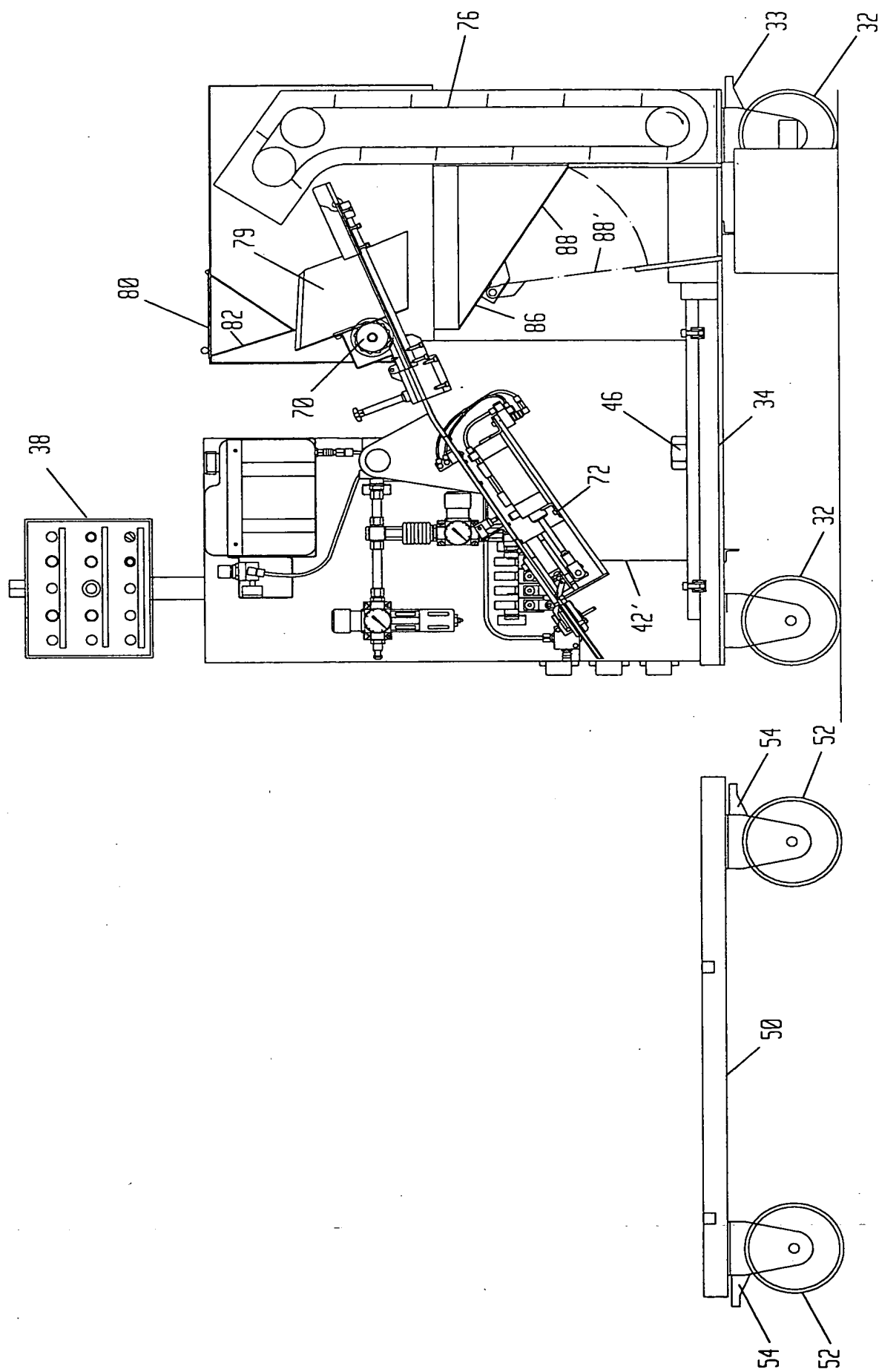


FIG. 15

FIG. 16 is a perspective view of the device 10 in a closed position. The device 10 includes a housing 12, a display 38, a control panel 40, a keypad 42, and a speaker 44. The device 10 is shown in a closed position, with the display 38 and keypad 42 hidden behind the housing 12. The speaker 44 is located on the front of the housing 12. The control panel 40 is located on the top of the housing 12. The device 10 is shown in a perspective view, with the housing 12, display 38, control panel 40, keypad 42, and speaker 44 clearly visible.

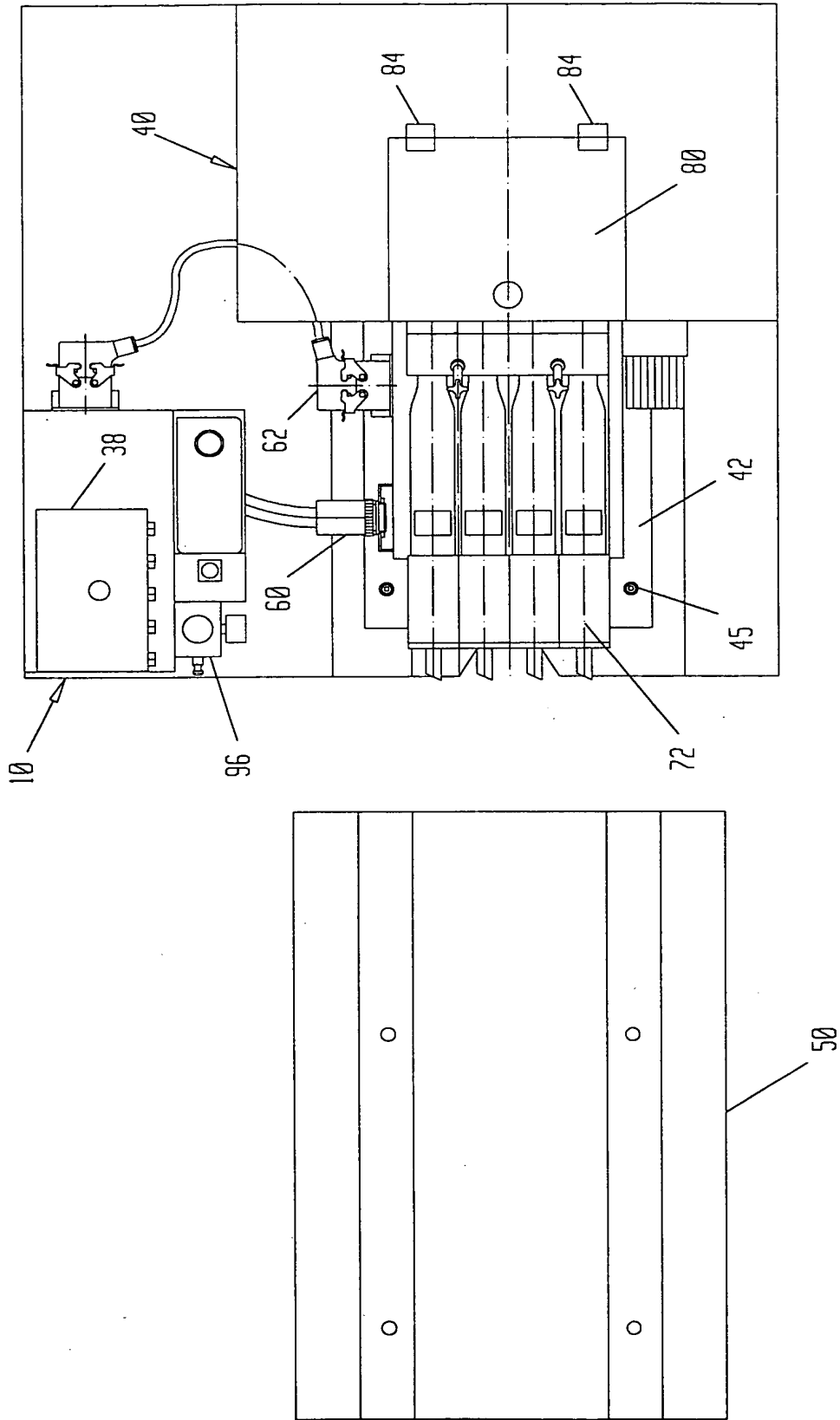
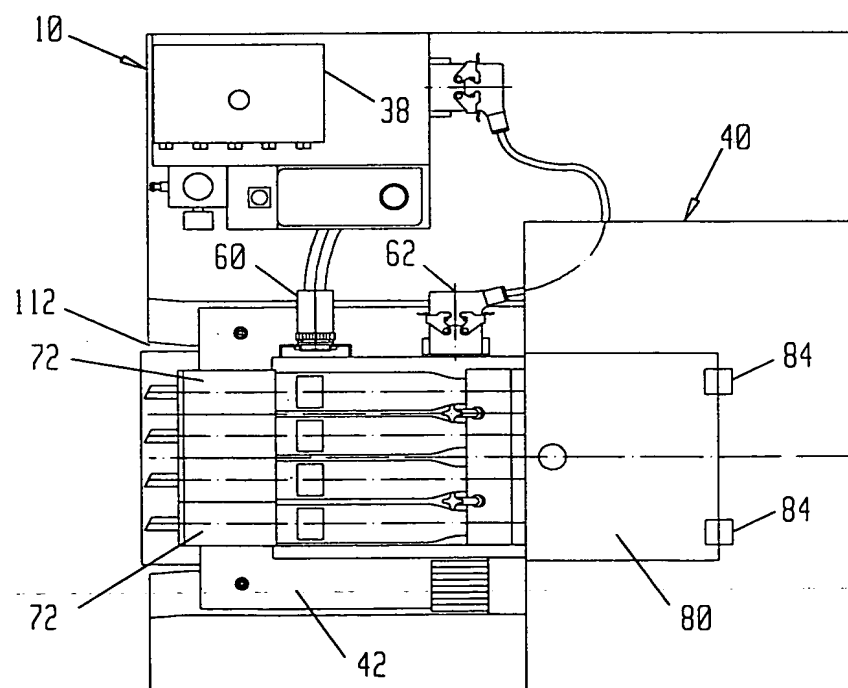
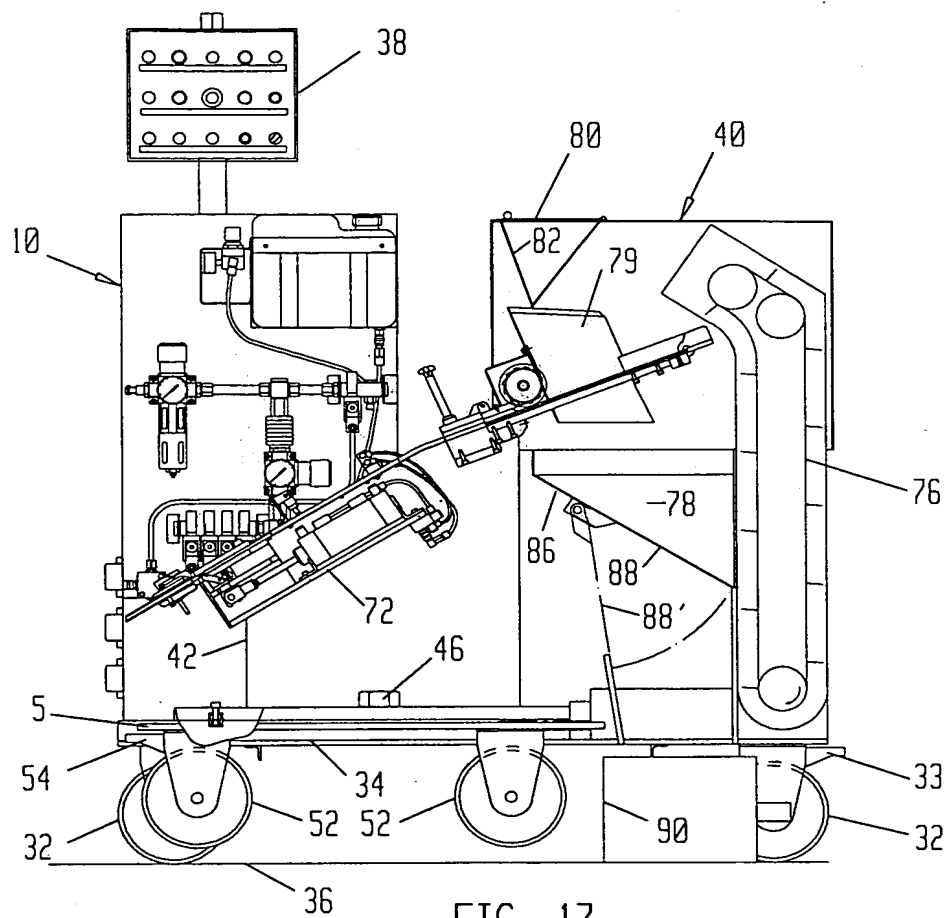


FIG. 16



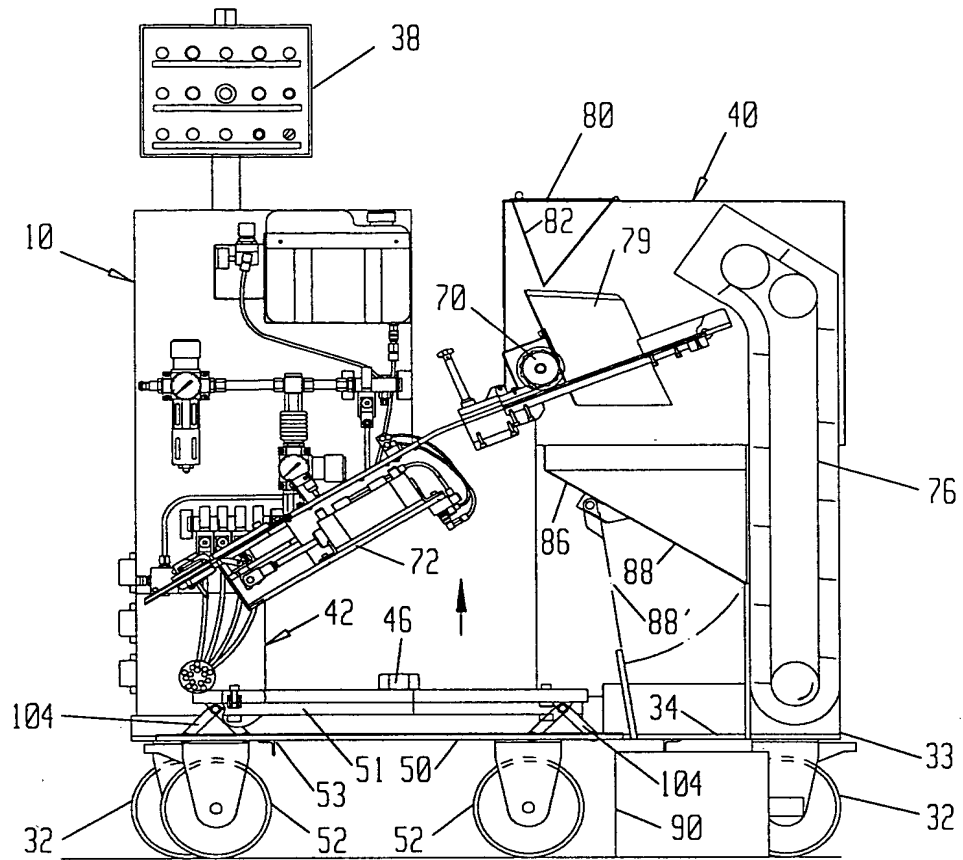


FIG. 19

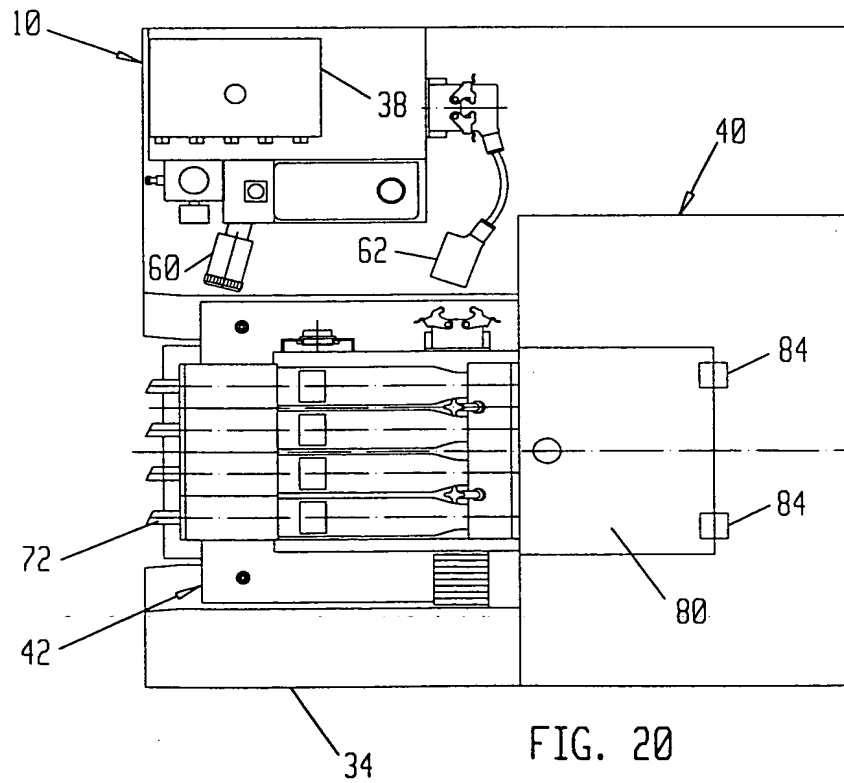


FIG. 20

FIG. 21

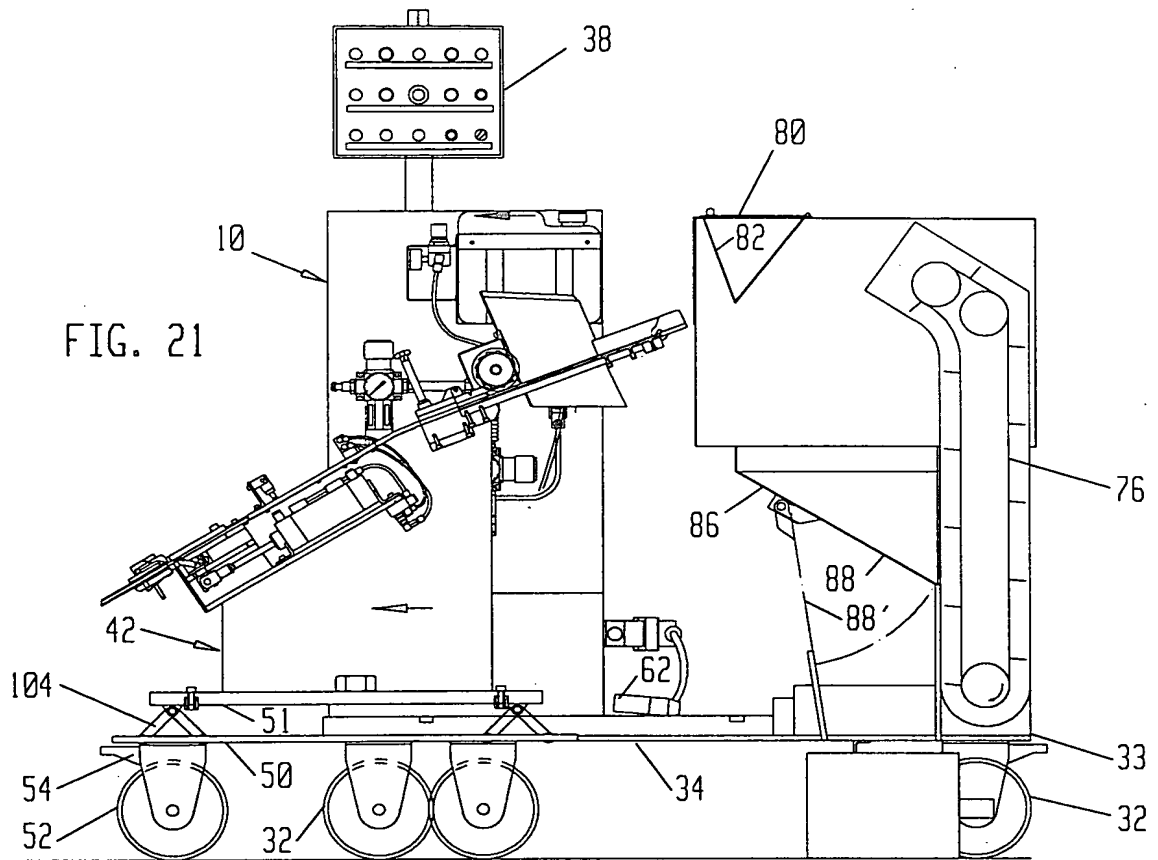
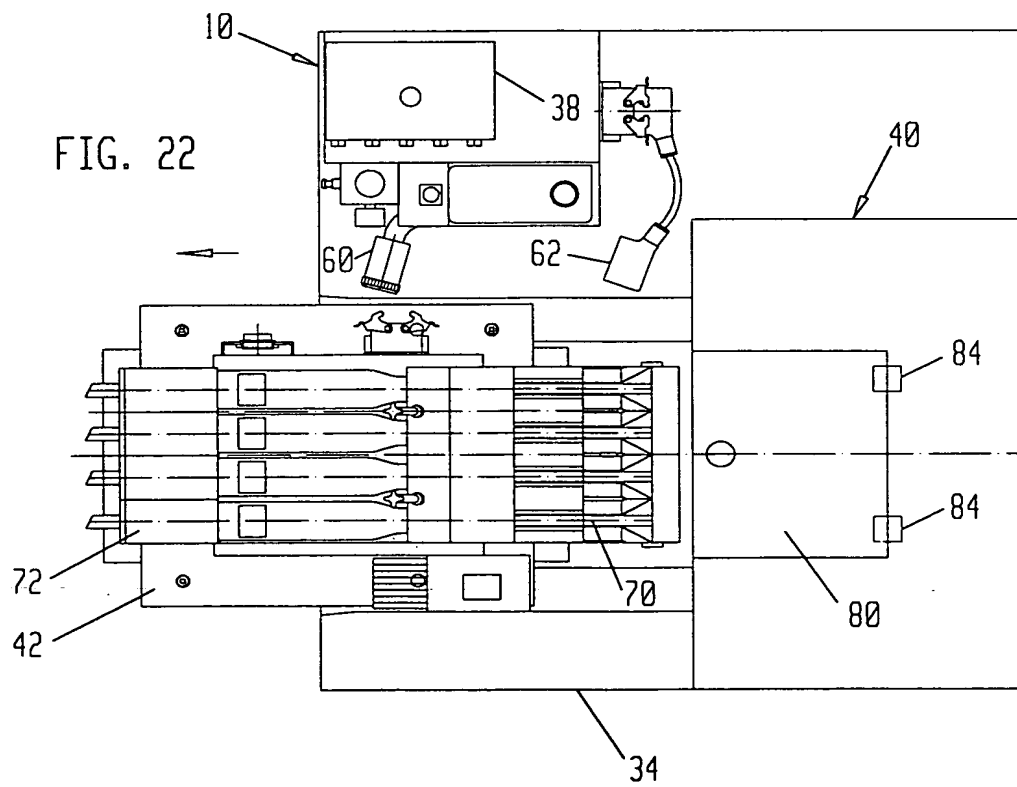


FIG. 22



Year	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

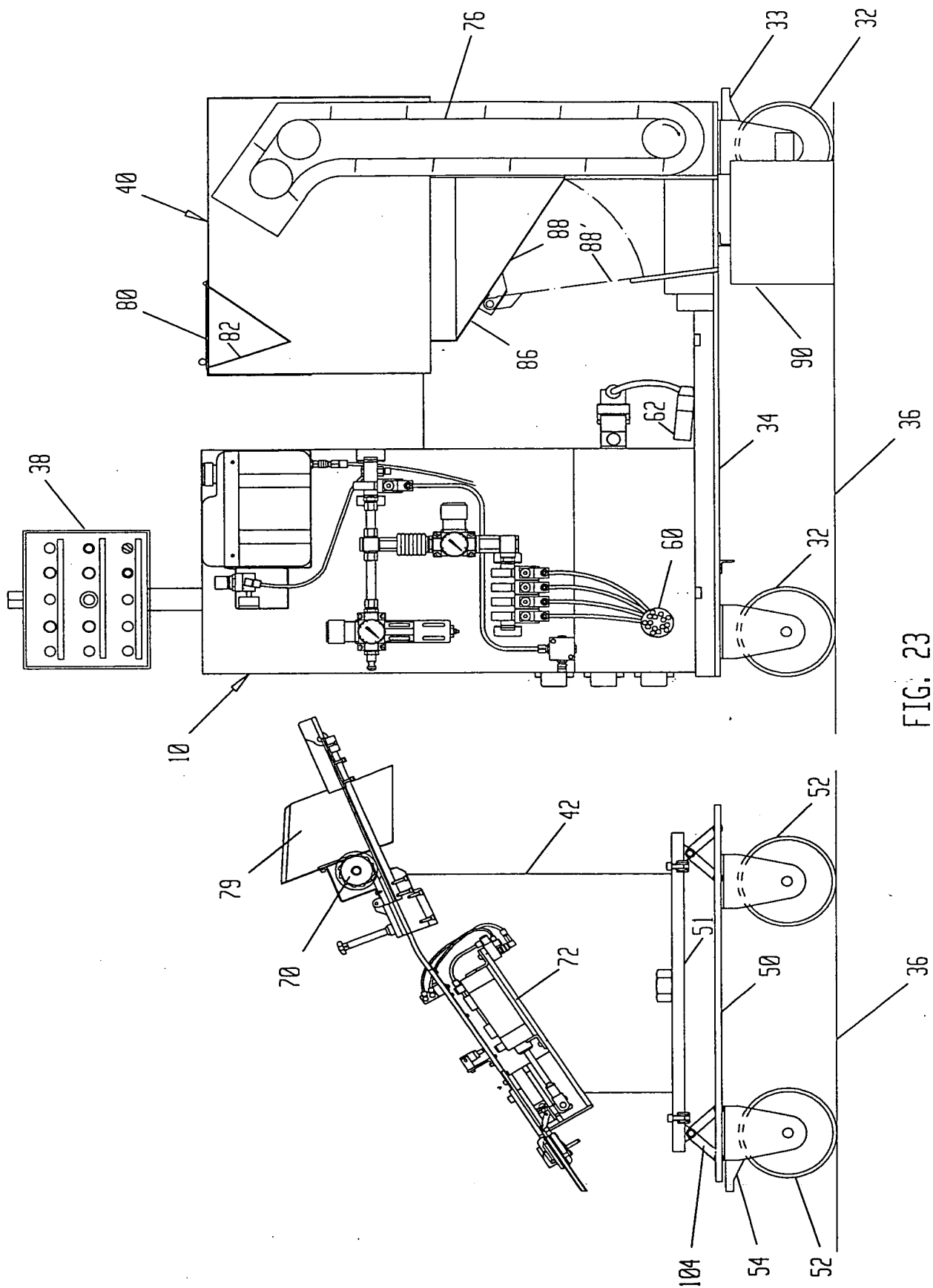


FIG. 24 is a perspective view of the device 10 in a closed position. The device 10 includes a housing 34, a display 38, a control panel 60, and a connector 62. The device 10 is shown in a closed position, with the display 38 and control panel 60 hidden within the housing 34. The connector 62 is shown extending from the housing 34.

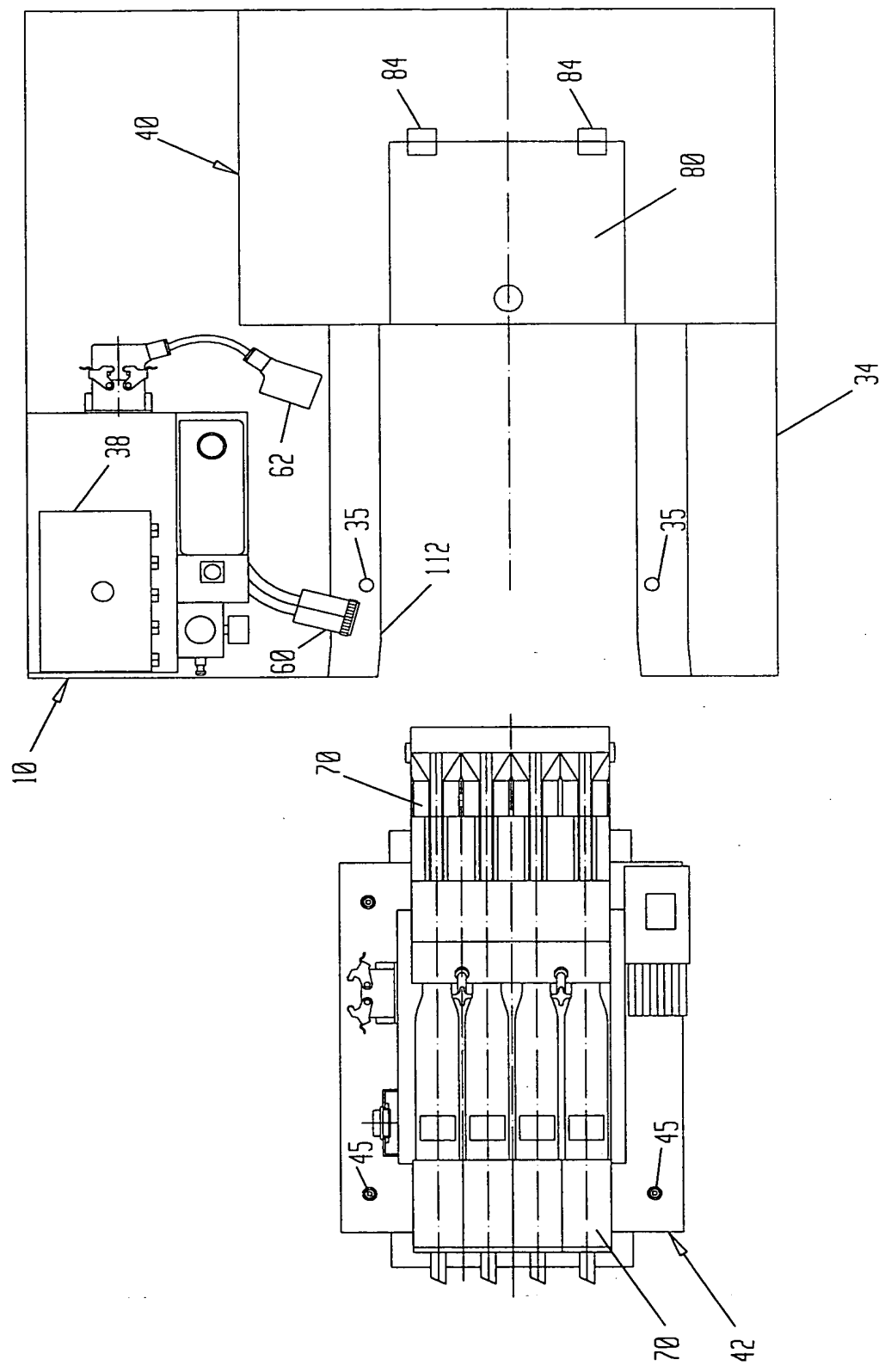


FIG. 24

1. The present invention relates to a method of and apparatus for the automatic control of a machine tool.

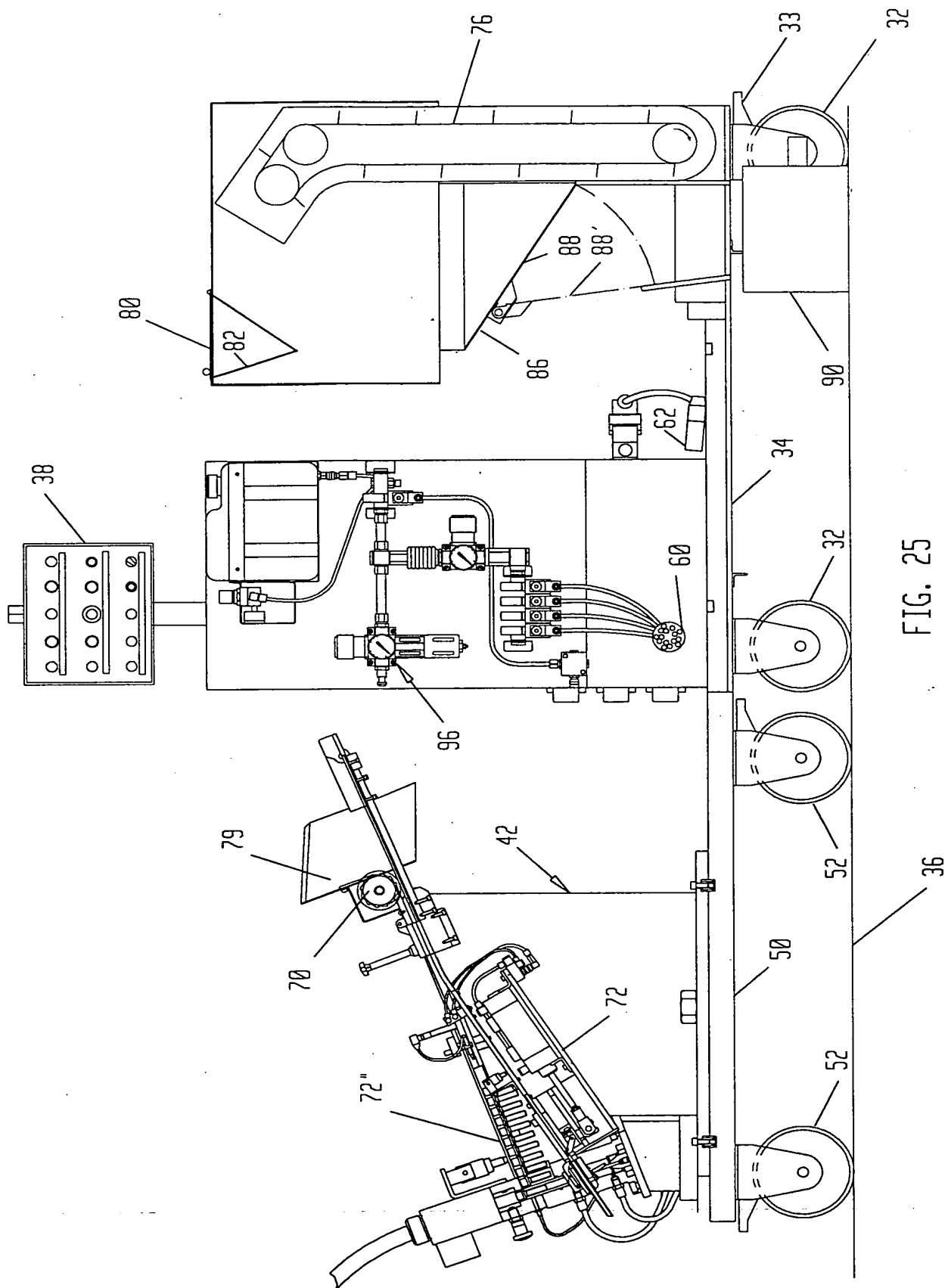


FIG. 25

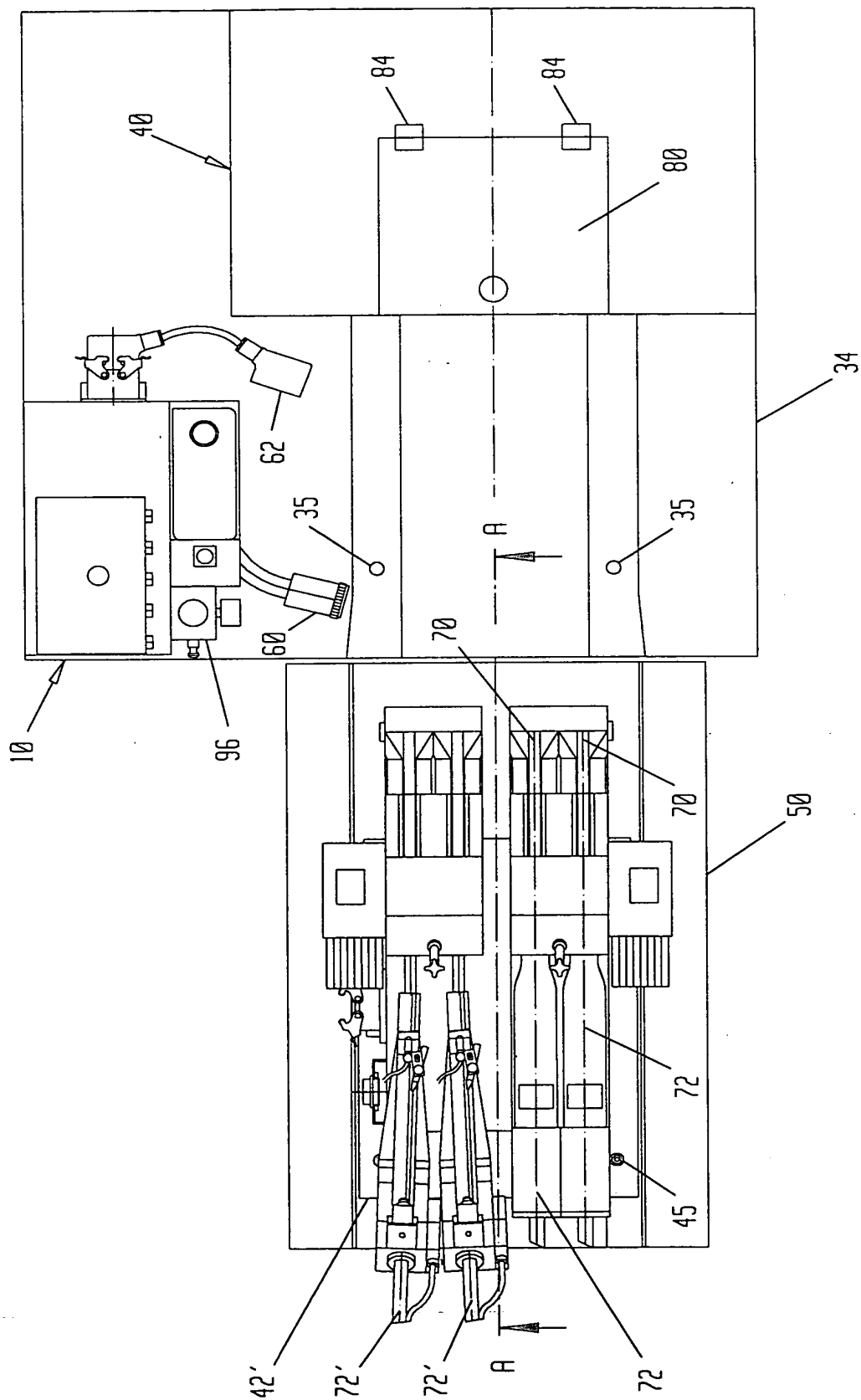


FIG. 26

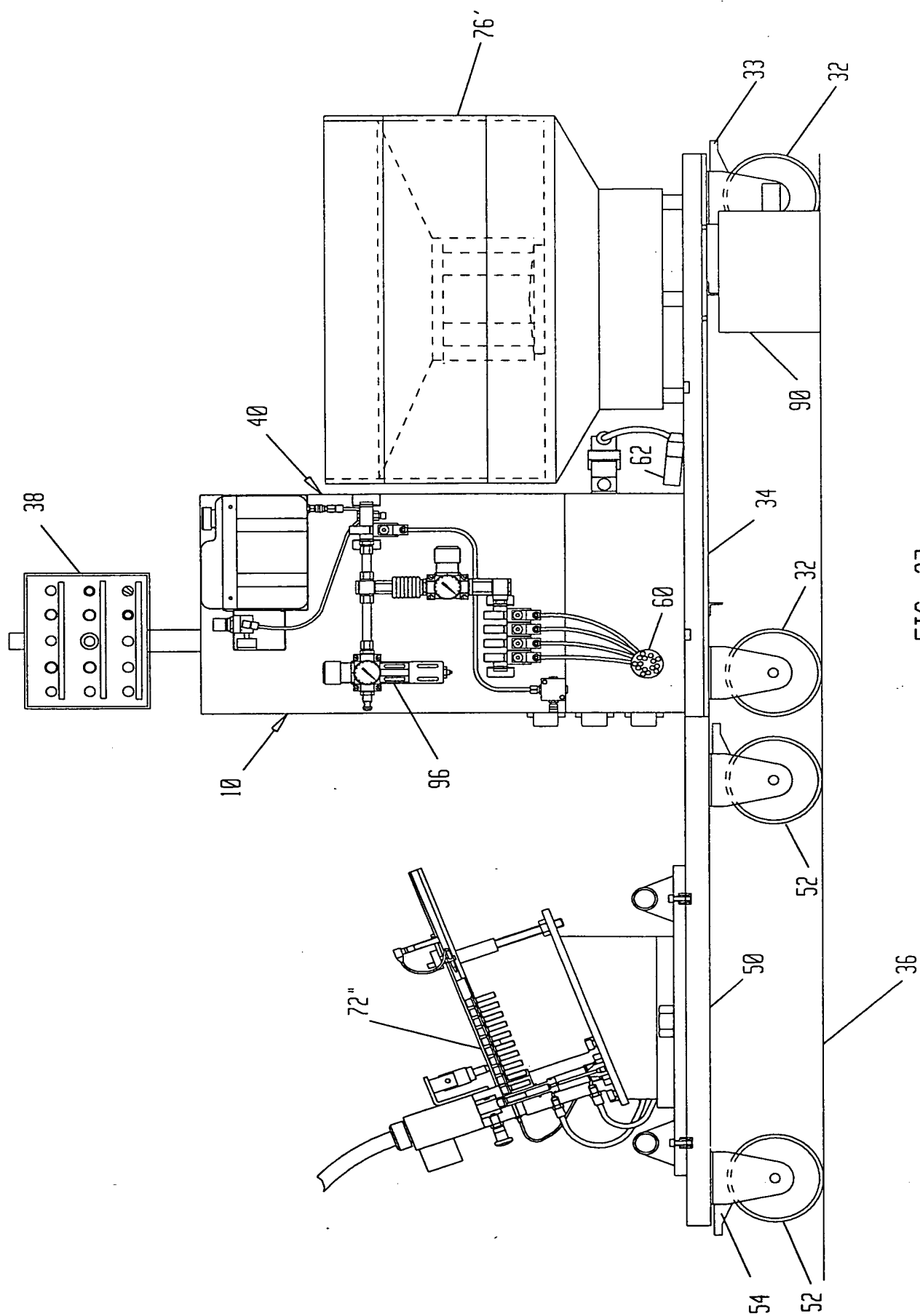
[illegible]

FIG. 28 is a perspective view of the system 10, showing the base 10, the control unit 38, the display 35, the camera 34, and the robotic arm 50. The robotic arm 50 is shown in a retracted position, and the control unit 38 is shown with a cable 35 connected to the base 10. The display 35 is shown with a cable 35 connected to the control unit 38. The camera 34 is shown with a cable 35 connected to the control unit 38. The base 10 is shown with a cable 35 connected to the control unit 38. The control unit 38 is shown with a cable 35 connected to the base 10. The display 35 is shown with a cable 35 connected to the control unit 38. The camera 34 is shown with a cable 35 connected to the control unit 38. The base 10 is shown with a cable 35 connected to the control unit 38.

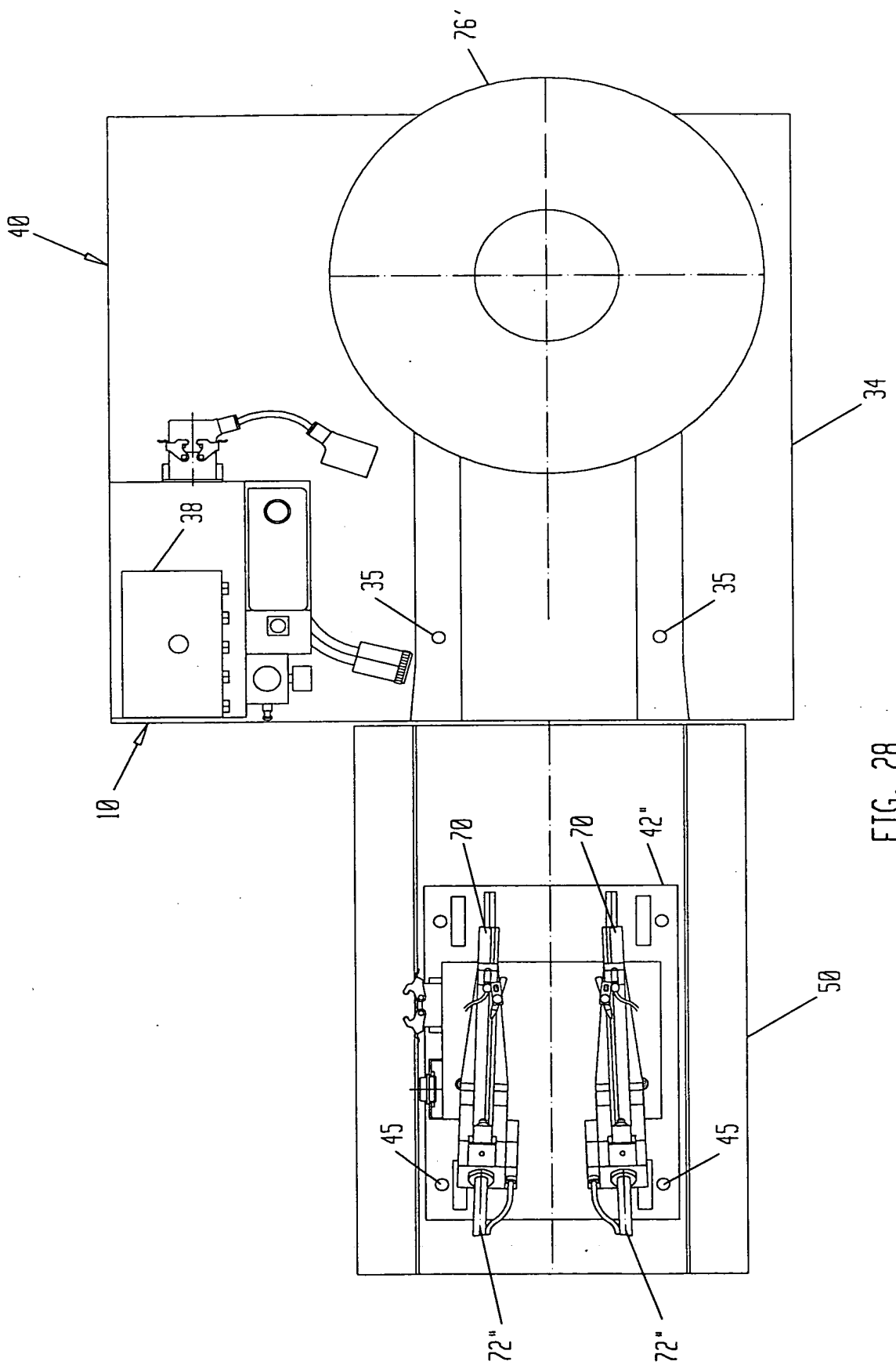


FIG. 28

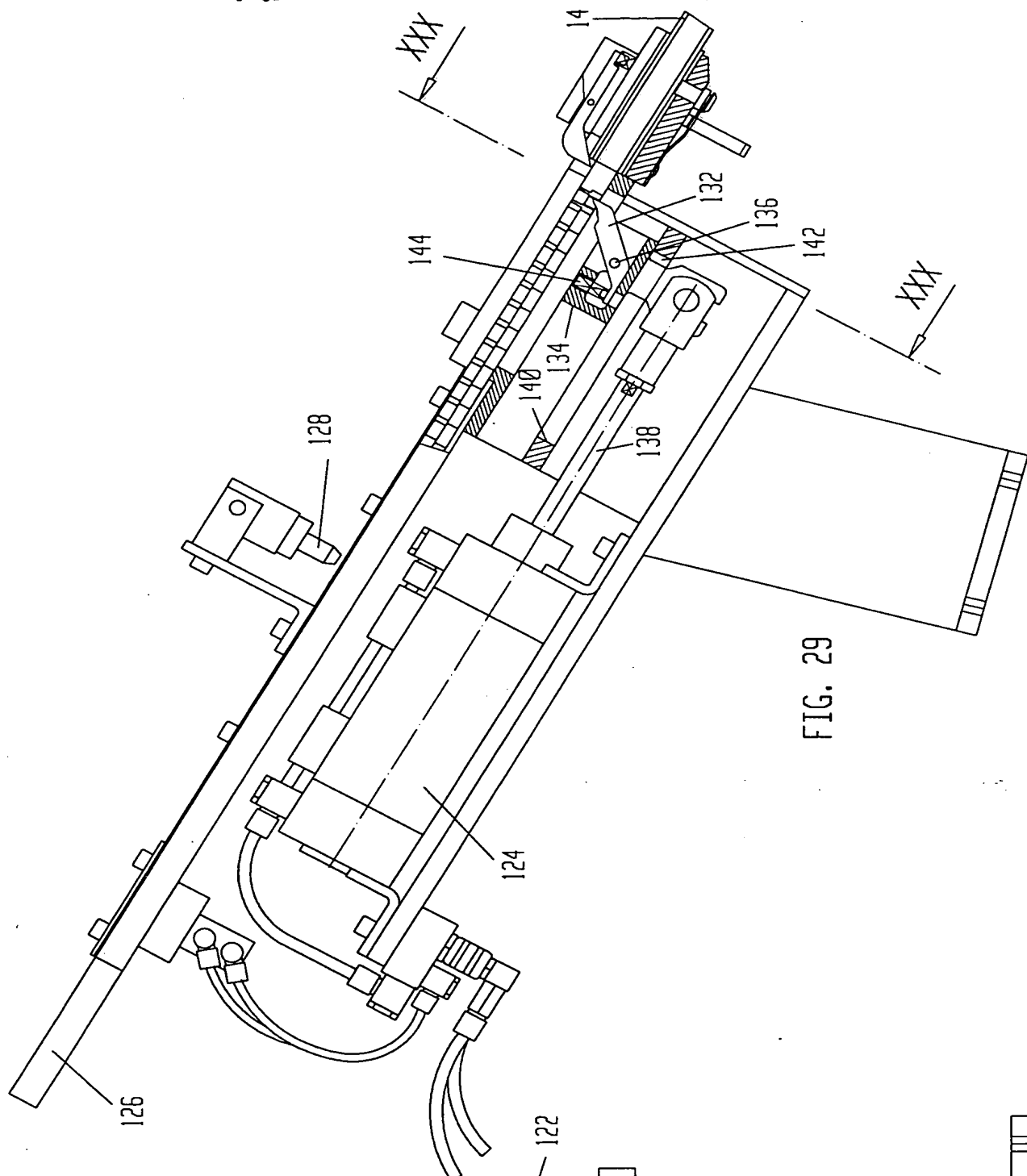


FIG. 29

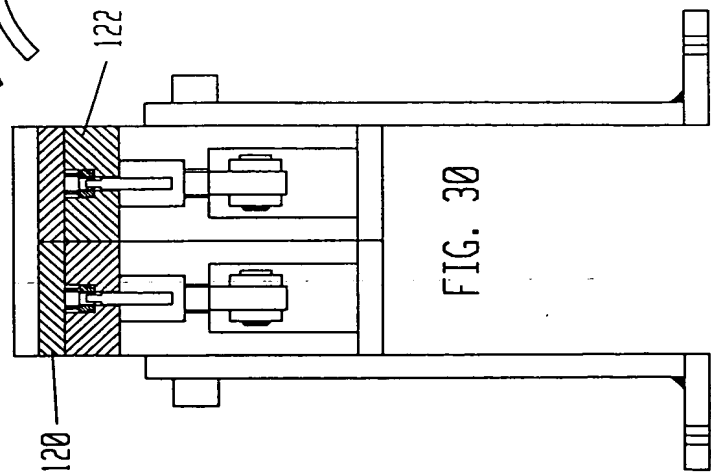


FIG. 30

FIG. 31 is a cross-sectional view of a mechanical assembly, showing a central vertical shaft (150) passing through a housing (154). The shaft is supported by bearings (156) and has a series of vertical slots (158) along its length. A horizontal shaft (151) is connected to the central shaft via a coupling (152). The assembly is mounted on a base (153) and includes various adjustment screws (178) and a lever (172) with a spring (168). The drawing is labeled with reference numerals 150, 151, 152, 153, 154, 156, 158, 164, 168, 172, 174, 176, and 178.

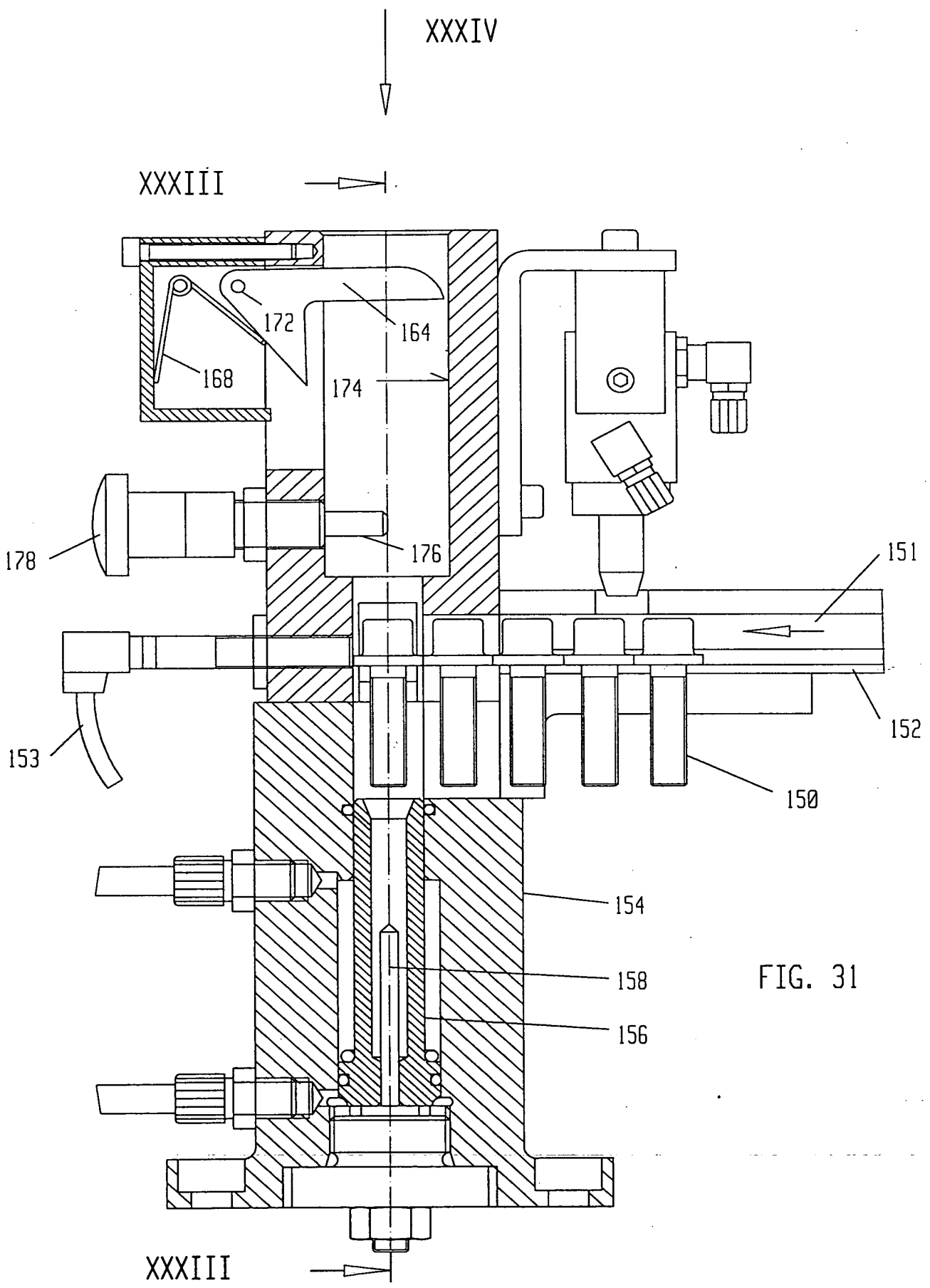


FIG. 31

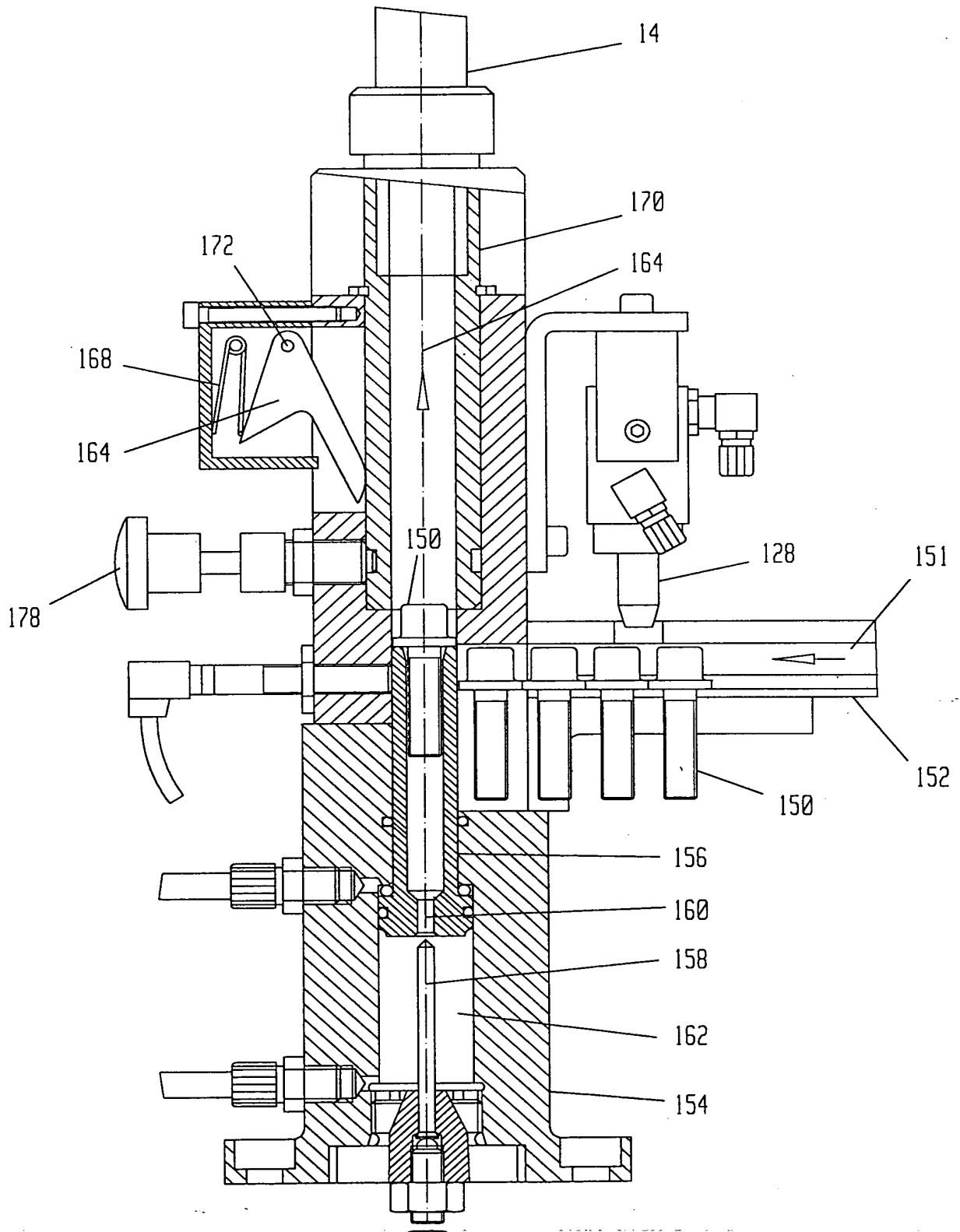


FIG. 32

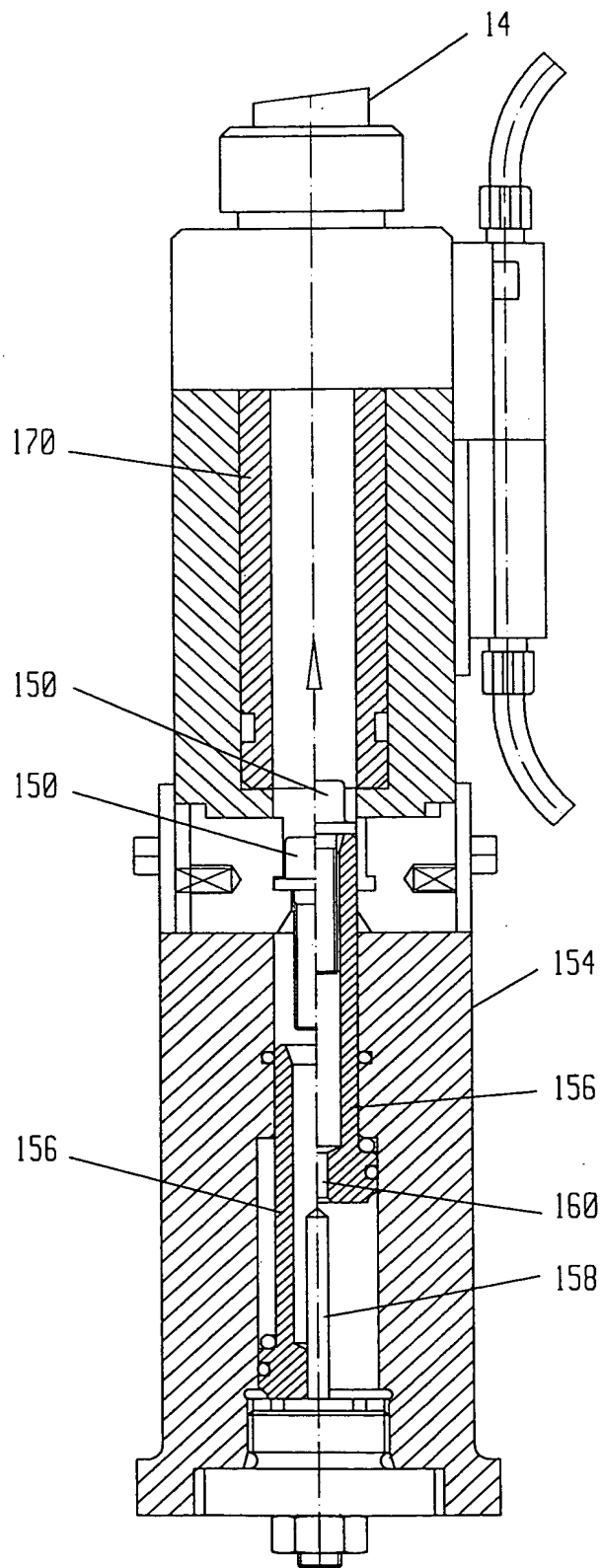


FIG. 33

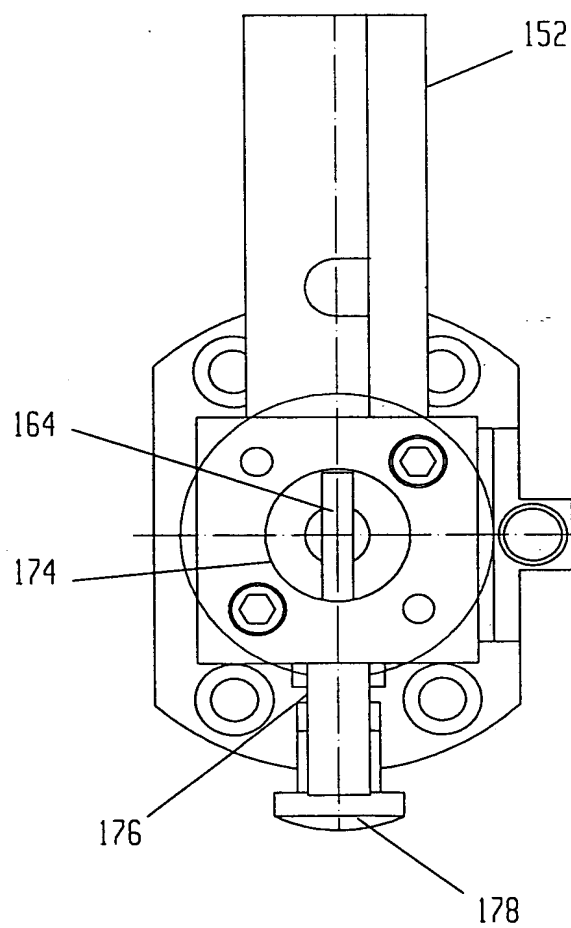


FIG. 34

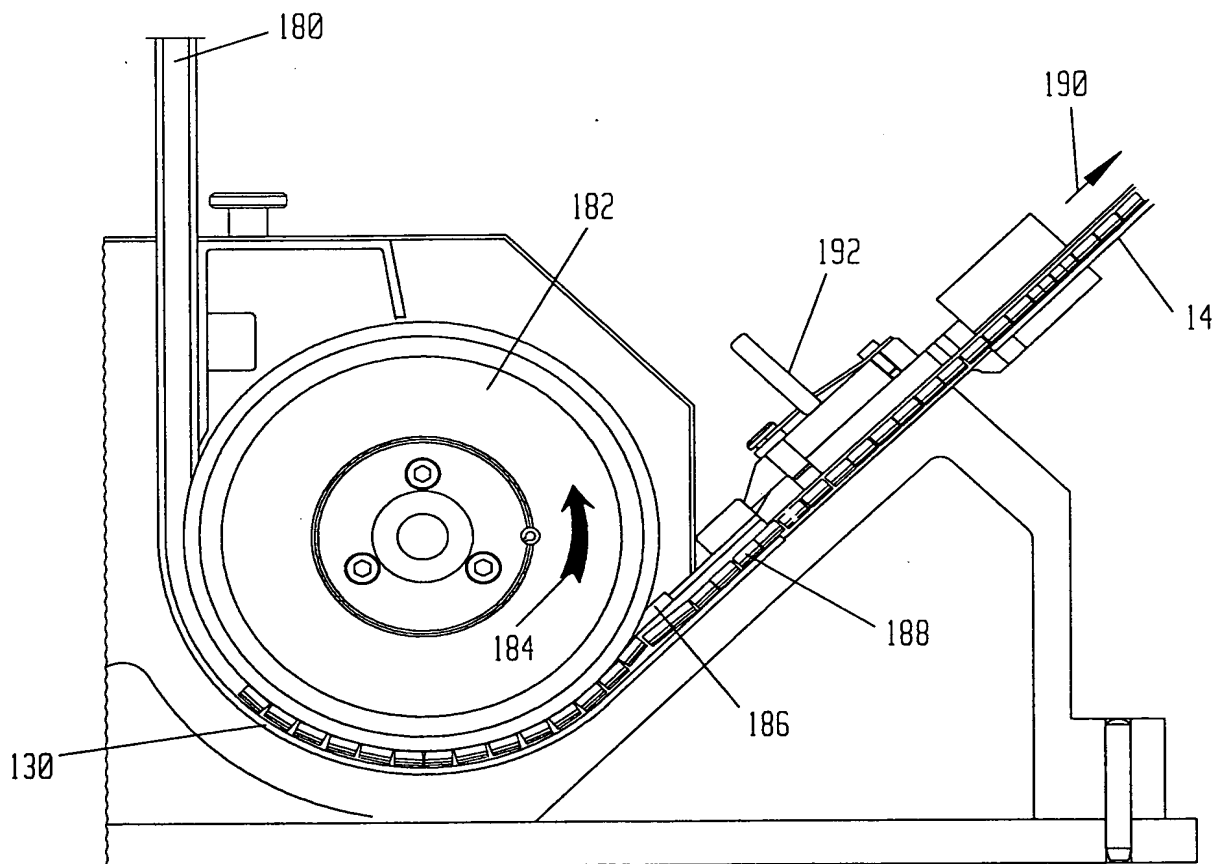


FIG. 35

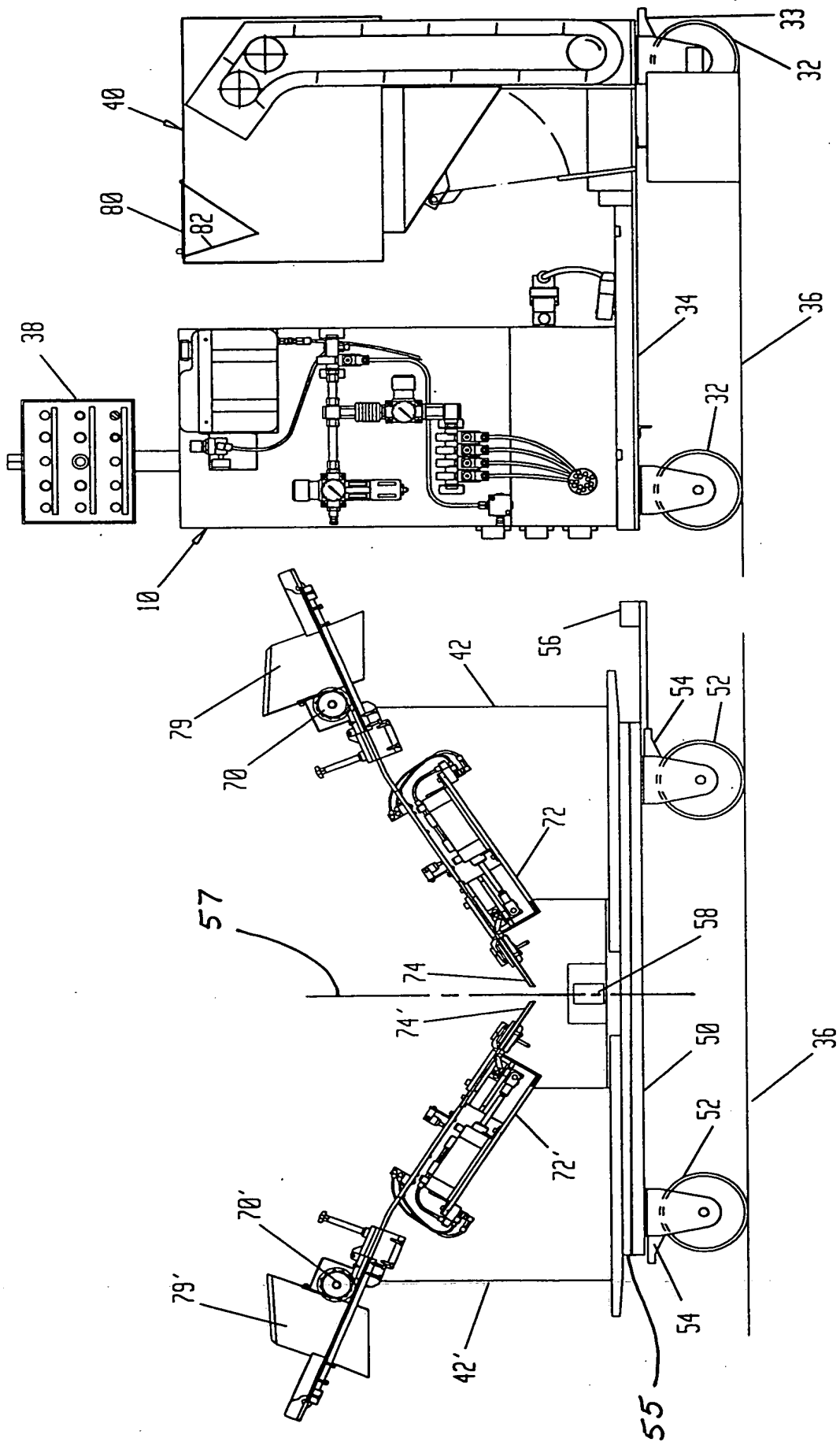


FIG. 36

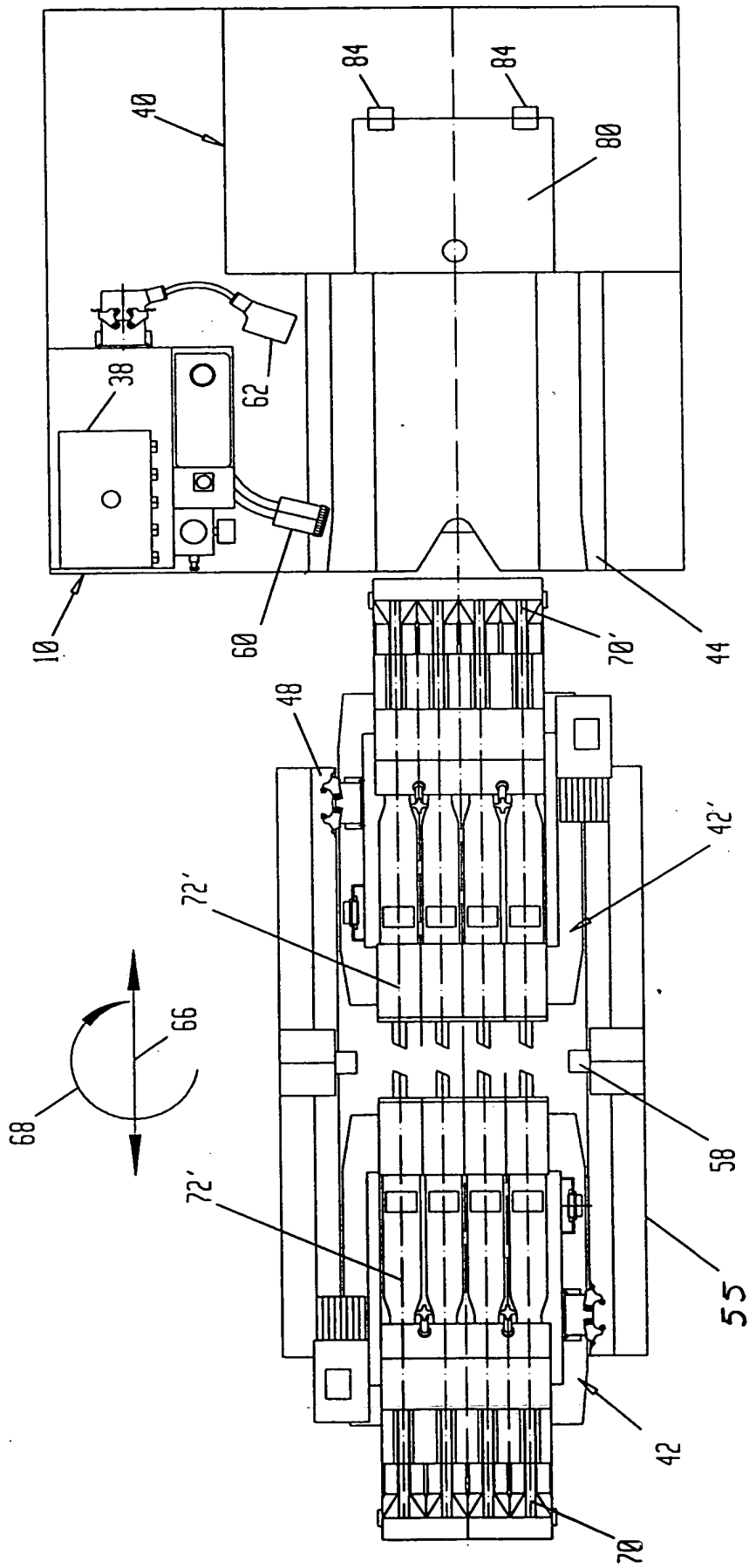


FIG. 37